



## FLUVANNA COUNTY BOARD OF SUPERVISORS

### REGULAR MEETING AGENDA

Circuit Courtroom, Fluvanna Courts Building

November 4, 2015,

Regular Meeting at 4:00 pm

Work Session at 7:00 pm

TAB	AGENDA ITEMS
<b>1</b>	<b>CALL TO ORDER, PLEDGE OF ALLEGIANCE, MOMENT OF SILENCE</b>
<b>2</b>	<b>ADOPTION OF AGENDA</b>
<b>3</b>	<b>COUNTY ADMINISTRATOR'S REPORT</b>
<b>4</b>	<b>BOARD OF SUPERVISORS' UPDATES</b>
<b>5</b>	<b>PUBLIC COMMENTS #1</b> (5 minutes each)
<b>6</b>	<b>PUBLIC HEARING</b>
	None
<b>7</b>	<b>ACTION MATTERS</b>
Q	TJPDC Legislative Program—David Blount, TJPDC Legislative Liaison
R	Vehicle for Crime Scene Investigator—Sheriff Eric Hess, Sheriff's Department
S	Additional Degrees, Certifications, and Licensures Policy—Gail Parrish, Human Resources Manager
T	Approval of the Agreement for the Zion Crossroads Water & Sewer System Design—Cyndi Toler, Purchasing Officer
<b>8</b>	<b>PRESENTATIONS</b> (normally not to exceed 10 minutes each)
U	VDOT Quarterly Report—Joel DeNunzio, VDOT Charlottesville Residency Administrator
V	Farm Heritage Museum Update—Marvin Moss, Fluvanna Historical Society
W	FCPS FY17 Budget Focus – Gena Keller, FCPS Superintendent
XYZ	FY15 Annual and FY16 Mid-Year Parks & Recreation Reports—Jason Smith, Parks and Recreation Director
A	FUSD Rate Structure—Wayne Stephens, Public Works Director and County Engineer
B	FY15 4 <sup>th</sup> Quarter Budget Report—Mary Anna Twisdale, Management Analyst
C	FY16 1 <sup>st</sup> Quarter Budget Report—Mary Anna Twisdale, Management Analyst
<b>9</b>	<b>CONSENT AGENDA</b>
D	Minutes of October 7, 2015 Meeting—Kelly Belanger Harris, Clerk to the Board
E	Minutes of October 21, 2015 Meeting—Kelly Belanger Harris, Clerk to the Board
F	Litter Grant Award—Jason Smith, Parks and Recreation Director
<b>10</b>	<b>UNFINISHED BUSINESS</b>
	TBD
<b>11</b>	<b>NEW BUSINESS</b>

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*For the Hearing-Impaired – Listening device available in the Board of Supervisors Room upon request. TTY access number is 711 to make arrangements.  
For Persons with Disabilities – If you have special needs, please contact the County Administrator's Office at 591-1910.*

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TBD

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**12 – PUBLIC COMMENTS #2** (5 minutes each)

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**13 – CLOSED MEETING**

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TBD

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**14 – WORK SESSION**

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TBD

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**15 – ADJOURN**

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Steven M. Nichols  
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County Administrator Review

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## PLEDGE OF ALLEGIANCE

I pledge allegiance to the flag  
of the United States of America  
and to the Republic for which it stands,  
one nation, under God, indivisible,  
with liberty and justice for all.

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### ORDER

1. It shall be the duty of the Chairman to maintain order and decorum at meetings. The Chairman shall speak to points of order in preference to all other members.
2. In maintaining decorum and propriety of conduct, the Chairman shall not be challenged and no debate shall be allowed until after the Chairman declares that order has been restored. In the event the Board wishes to debate the matter of the disorder or the bringing of order; the regular business may be suspended by vote of the Board to discuss the matter.
3. No member or citizen shall be allowed to use abusive language, excessive noise, or in any way incite persons to use such tactics. The Chairman and/or the County Administrator shall be the judge of such breaches, however, the Board may vote to overrule both.
4. When a person engages in such breaches, the Chairman shall order the person's removal from the building, or may order the person to stand silent, or may, if necessary, order the person removed from the County property.

### PUBLIC HEARING RULES OF PROCEDURE

1. PURPOSE
  - The purpose of a public hearing is to receive testimony from the public on certain resolutions, ordinances or amendments prior to taking action.
  - A hearing is not a dialogue or debate. Its express purpose is to receive additional facts, comments and opinion on subject items.
2. SPEAKERS
  - Speakers should approach the lectern so they may be visible and audible to the Board.
  - Each speaker should clearly state his/her name and address.
  - All comments should be directed to the Board.
  - All questions should be directed to the Chairman. Members of the Board are not expected to respond to questions, and response to questions shall be made at the Chairman's discretion.
  - Speakers are encouraged to contact staff regarding unresolved concerns or to receive additional information.
  - Speakers with questions are encouraged to call County staff prior to the public hearing.
  - Speakers should be brief and avoid repetition of previously presented comments.
3. ACTION
  - At the conclusion of the public hearing on each item, the Chairman will close the public hearing.
  - The Board will proceed with its deliberation and will act on or formally postpone action on such item prior to proceeding to other agenda items.
  - Further public comment after the public hearing has been closed generally will not be permitted.

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**FLUVANNA COUNTY BOARD OF SUPERVISORS AGENDA ITEM**

**Meeting Date:** November 4, 2015

<b>AGENDA TITLE:</b>	TJPDC 2016 Draft Legislative Program				
<b>MOTION(s):</b>	<b>I move to adopt the Draft Thomas Jefferson Planning District Legislative Program for 2016.</b>				
<b>AGENDA CATEGORY:</b>	Public Hearing	Action Matter	Presentation	Consent Agenda	Other
		<b>X</b>			
<b>STAFF CONTACT(S):</b>	Steven M. Nichols, County Administrator				
<b>PRESENTER(S):</b>	David Blount, TJPDC Legislative Liaison				
<b>RECOMMENDATION:</b>	Approval				
<b>TIMING:</b>	Routine				
<b>DISCUSSION:</b>	The Board should discuss the program and offer any suggested changes prior to adoption.				
<b>FISCAL IMPACT:</b>	N/A				
<b>POLICY IMPACT:</b>	N/A				
<b>LEGISLATIVE HISTORY:</b>	None				
<b>ENCLOSURES:</b>					
<b>REVIEWS COMPLETED:</b>	Legal	Finance	Purchasing	HR	Other
		<b>X</b>			



October 27, 2015

TO: Members, Fluvanna County Board of Supervisors  
Fluvanna County Administrator

FROM: David C. Blount, Legislative Liaison

RE: 2016 TJPDC Legislative Program Approval

Attached is the draft 2016 TJPDC Legislative Program for your review and consideration. As I discussed with you at your September meeting, I will be presenting the program and seeking approval of it at your November 4 meeting. This year, the draft program lists three top legislative priorities, along with several other priority positions. They are contained in the draft program as follows:

- 1) Public Education Funding
- 2) Equalized Revenue Authority
- 3) State Mandates and Funding Obligations
- 4) Water Quality
- 5) Transportation Funding and Devolution
- 6) Land Use and Growth Management

The program also includes a “Legislative Positions and Policy Statements” section, which was overhauled last year, and which contains recommendations, requests and positions in other areas of interest and concern to the region or to our individual localities.

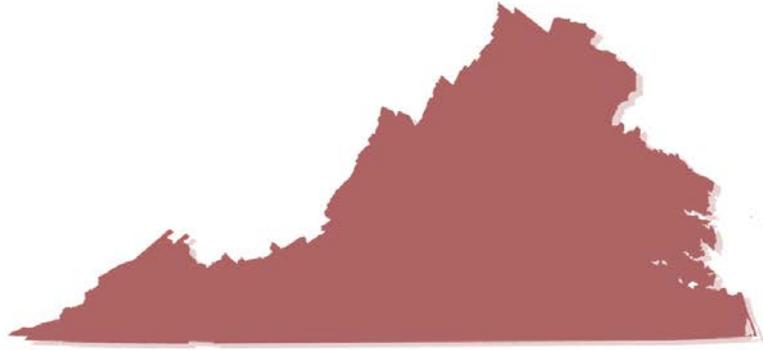
A summary of the top priority positions will be produced and distributed later for you to use in communicating with your legislators.

I look forward to presenting and discussing the draft program when we meet November 4. Thank you.

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**Recommended Action:** Approve the draft TJPDC Legislative Program.

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## **Thomas Jefferson Planning District**

### **2016 LEGISLATIVE PROGRAM**

# **DRAFT**

Albemarle County | City of Charlottesville  
Fluvanna County | Greene County  
Louisa County | Nelson County

**November 2016**

**Andrea Wilkinson**, Chairman  
**Chip Boyles**, Executive Director  
**David Blount**, Legislative Liaison

## Public Education Funding

**PRIORITY: The Planning District localities urge the State to fully fund its share of the realistic costs of the Standards of Quality without making policy changes that reduce funding or shift funding responsibility to localities.**

The State will spend about \$5.6 billion on public education in FY16; however, K-12 state direct aid funding remains below its 2009 peak and does not reflect the true costs of local K-12 education. Localities go beyond state mandates to meet Standards of Learning and Standards of Accreditation requirements, having spent nearly \$7 billion for school division operations in FY14. This amount represents 56% of State/local K-12 funding and is \$3.6 billion above the state-required effort. A Spring, 2015 survey of school divisions revealed they have been reducing staff and adding additional duties to remaining staff; over 70% have increased class sizes and 20% have reduced employee compensation in recent years.

Reductions in state public education dollars the last four to five years have been accomplished mainly through policy changes that are decreasing the state's funding obligations moving forward. The State also made policy changes (e.g. mandatory teacher 5% for 5%) to the Virginia Retirement System (VRS) that increased local costs and did nothing to reduce the unfunded teacher pension liability. Education expenditures are expected to continue increasing, as the percentage of at-risk students climbs (now about one-third of students) and state and local VRS contribution rates will drive additional spending in the coming years.

## Equalized Revenue Authority

**PRIORITY: The Planning District localities urge the governor and legislature to equalize the revenue-raising authority of counties with that of cities.**

A number of state-level studies, dating back as far as the early 1980's, have noted that the differences between city and county taxing authority exist due to historical distinctions in the services provided, and that they should be eliminated. This distinction has become less prevalent with increased urbanization and suburbanization, as a growing number of counties now provide levels of services similar to cities. Levels of funding, the degree of service responsibility and standards related to delivery of such services often are topics of debate between the State and localities. Local governments cannot be expected to bear the expenses related to the imposition of new funding requirements or the expansion of existing ones on services delivered at the local level without a commensurate increase of state financial assistance or new local taxing authority. The real property tax relied upon by localities is providing a smaller percentage of local resources and likely will not grow commensurate with local needs. To compensate, many localities have increased or adopted new taxes and fees and have taken significant actions to control spending.

This proposal essentially removes the caps that currently apply to county authority to levy the meals, lodging, cigarette and amusement taxes, as well as the requirement that meals

taxes in counties be subject to approval by referendum. It stands to help diversify and broaden the revenue base of counties by further reducing dependency on real property taxes. We believe that, at a minimum, equalizing revenue authority for counties with that of cities should be “on the table” as Virginia examines modernizing its tax system to comport with the realities of a global, information-driven economy, which will rely less on federal and other government spending and more on new, private sector business models.

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## State Mandates and Funding Obligations

**PRIORITY: The Planning District localities urge the governor and legislature to 1) not impose financial or administrative mandates on localities; 2) not shift costs for state programs to localities; and 3) not further restrict local revenue authority.**

Locality budgets remain challenged by slowly-recovering local revenues, recession-riddled state funding and additional requirements. While state general fund appropriations have increased by about \$2.8 billion since FY09 (from \$15.9 billion to nearly \$18.8 billion in FY16), state assistance to local government priorities has remained stagnant (at about \$8.2 billion). More state dollars continue to flow for Medicaid expenditures (now 21% of the general fund budget) and debt service (where expenditures have doubled the past 10 years and will reach nearly \$700 million in FY16).

Accordingly, we take the following positions:

→We urge policymakers to preserve existing funding formulas rather than altering them in order to save the State money and/or shift costs to localities.

→We oppose unfunded state and federal mandates and the cost shifting that occurs when the State fails to fund requirements or reduces or eliminates funding for state-supported programs. Doing so strains local ability to craft effective and efficient budgets to deliver services mandated by the State or demanded by residents.

→The State should not alter or eliminate the BPOL and Machinery and Tools taxes, or divert Communications Sales and Use Tax Fund revenues intended for localities to other uses. Instead, as previously noted, the legislature should broaden the revenue sources available to localities.

→Finally, we believe the State should examine how services are delivered and paid for in the future as a different economy takes hold in Virginia.

## OTHER PRIORITY ITEMS

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### Water Quality

**PRIORITY: The Planning District localities support the goal of improved water quality, but as we face mounting costs for remedies, including stormwater management, we believe major and reliable forms of financial and technical assistance from the federal and state governments is necessary if comprehensive improvement strategies are to be effective.**

As local governments are greatly impacted by federal and state initiatives to reduce pollutants into state waters, it is imperative that aggressive state investment in meeting required milestones for reducing Chesapeake Bay pollution to acceptable levels occurs. This investment must take the form of authority, funding and other resources to assure success, and must ensure that cost/benefit analyses are conducted of solutions that generate the greatest pollution reductions per dollar spent. This includes costs associated with stormwater management, for permitted dischargers to upgrade treatment plants and for any retrofitting of developed areas, and to aid farmers with best management practices.

Specifically concerning stormwater management, we support adequate funding and training to enable the State and local governments to meet ongoing costs associated with local stormwater management programs that became effective on July 1, 2014. Any proposed legislation to streamline the State's stormwater and erosion/sediment control programs should recognize that localities need funding and technical assistance to implement the changes. We will oppose proposals that would result in new or expanded mandates or requirements, including elimination of current "opt-out" provisions, or financial burdens on local governments.

We oppose efforts that would require re-justification of nutrient allocations for existing wastewater treatment facilities in our region or that would reduce or eliminate nutrient allocation or related treatment capacity serving the region.

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### Transportation Funding and Devolution

**PRIORITY: The Planning District localities urge the State to continue to enhance funding for local and regional transportation needs. We also oppose legislation or regulations that would transfer responsibility to counties for construction, maintenance or operation of current or new secondary roads.**

We urge the State to remain focused on providing revenues for expanding and maintaining all modes of our transportation infrastructure that are necessary to meet Virginia's well-documented highway and transit challenges and to keep pace with growing public needs and expectations. As the State continues to move forward with the prioritization process established by HB 2 (2014) and the new distribution formula for highway construction projects established

by HB 1887 (2015), it should be focused on the goal of getting money flowing to important local and regional projects in the state's nine VDOT construction districts. Further, we support additional authority to establish mechanisms for funding transit and non-transit projects in our region.

We believe that efficient and effective transportation infrastructure, including the secondary road system, is critical to a healthy economy, job creation, a cleaner environment and public safety. Accordingly, we oppose shifting the responsibility for secondary roads to local entities, which could result in vast differences among existing road systems in different localities, potentially placing the State at a competitive economic disadvantage with other states when considering business and job recruitment, and movement of goods.

Finally, while we opposed closing of VDOT's Louisa residency facilities and support its reopening, we also support the option for the locality to purchase the property if available.

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## Land Use and Growth Management

**PRIORITY: The Planning District localities encourage the State to provide local governments with additional tools to manage growth, without preempting or circumventing existing authorities.**

In the past, the General Assembly has enacted both mandated and optional land use provisions. Some have been helpful, while others have prescribed one-size-fits-all rules that hamper different local approaches to land use planning. Accordingly, we support local authority to plan and regulate land use and oppose legislation that weakens these key local responsibilities.

Current land use authority often is inadequate to allow local governments to provide for balanced growth in ways that protect and improve quality of life. Therefore, we believe the General Assembly should grant localities additional tools necessary to meet important infrastructure needs. These include the following: 1) impact fee and proffer systems that are workable and meaningful for various parties, without weakening our current proffer authority; 2) impact fee authority for costs for facilities other than roads; and 3) authority to enact adequate public facility ordinances for determining whether public facilities associated with new developments are adequate.

We support ongoing state and local efforts to coordinate land use and transportation planning, and urge state and local officials to be mindful of various local and regional plans when conducting corridor or transportation planning within a locality or region.

Finally, concerning land preservation, we request state funding and incentives for localities, at their option, to acquire, preserve and maintain open space.

# LEGISLATIVE POSITIONS and POLICY STATEMENTS

## Children's Services Act

The Planning District localities urge the State to be partners in containing costs of the Children's Services Act (CSA) and to better balance CSA responsibilities between the State and local government. Since the inception of CSA in the early 1990's, there has been pressure to hold down costs, to cap state costs for serving mandated children, to increase local match levels and to make the program more uniform by attempting to control how localities run their programs.

### **CSA Administration:**

We request increased state dollars for local CSA administrative costs, as localities pay the overwhelming majority of costs to administer this shared program. State dollars for administration have not increased since the late 1990's, while at the same time, costs have jumped due to additional data collection and reporting requirements.

### **Pool Expenditures:**

- The State should provide full funding of the state pool for CSA, with allocations based on realistic anticipated levels of need.
- The State should establish a cap on local expenditures in order to combat higher local costs for serving mandated children, costs often driven by unanticipated placements in a locality.
- Categories of populations mandated for services should not be expanded unless the State pays all the costs.

### **Efficiency:**

- The State should be proactive in making residential facilities and service providers available, especially in rural areas.
- In a further effort to help contain costs and provide some relief to local governments, we recommend that the State establish contracts with CSA providers to provide for a uniform contract management process in order to improve vendor accountability and to control costs.

## Economic and Workforce Development

The Planning District's member localities recognize economic development and workforce training as essential to the continued viability of the Commonwealth. We support policies and additional state funding that closely links the goals of economic and workforce development and the State's efforts to streamline and integrate workforce activities and revenue sources. We encourage equipping the workforce with in-demand skill sets so as to align workforce supply with anticipated employer demands. We also support continuing emphasis on regional cooperation in economic, workforce and tourism development.

### **Economic Development:**

- We support efforts to grow and diversify the private sector in each region, with the State serving as a catalyst and partner to provide financial incentives, technical support and other incentives for

collaboration by business, governments, educational institutions and communities to spur economic development, job creation and career readiness.

- We support legislation that dedicates income and sales tax revenues generated by corporations and limited liability companies within an economic development project to such locality in cases where the locality has expended local funds for such project and state grant funds or incentives were not involved.

**Broadband:**

We encourage and support continuing state and federal efforts and financial incentives that assist communities in deploying universal, affordable access to broadband technology, particularly in underserved areas. We believe such efforts should include:

- A focus on correcting the accuracy and availability of statewide broadband maps;
- Support for linking broadband efforts for education and public safety to private sector efforts to serve businesses and residences;
- Provisions that provide for sharing utility and road right of way easements for expanding broadband;
- Maintaining local land use, permitting, fees and other local authorities; and
- Development of a statewide comprehensive plan for broadband and state support for local governments that are developing local or regional broadband plans.

**Planning District Commissions:**

- We support increased state funding for regional planning district commissions.
- We encourage opportunities for planning districts to collaborate with state officials and state agencies on regional programs and projects, and support funds for the Regional Competitiveness Act to initiate and sustain such efforts.

**Agricultural Products and Enterprises:**

We encourage state and local governments to work together and with other entities to identify, to provide incentives for and to promote local, regional and state agricultural products and rural enterprises, and to encourage opportunities for such products and enterprises through a balanced approach.

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## Education

The Planning District’s member localities believe that state funding for K-12 education in Virginia should recognize actual needs, practices and costs of local school divisions; otherwise, more of the funding burden will fall on local taxpayers.

**School Division Finances:**

- We believe that unfunded liability associated with the teacher retirement plan should be a shared responsibility of state and local government, with the Virginia Department of Education paying its share of retirement costs directly to VRS in order to facilitate such sharing.
- The State should not eliminate or decrease funding for benefits for school employees.
- We support legislation that 1) establishes a mechanism for local appeal to the State of the calculated Local Composite Index (LCI); and 2) amends the LCI formula to recognize the land use taxation value, rather than the true value, of real property.

**Literary Fund:**

- The State should discontinue seizing dollars from the Literary Fund to help pay for teacher retirement.
- We urge state financial assistance with school construction and renovation needs, including funding for the Literary Loan and interest rate subsidy programs.

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## Environmental Quality

The Planning District's member localities believe that environmental quality should be funded and promoted through a comprehensive approach, and address air and water quality, solid waste management, land conservation, climate change and land use policies. We are committed to protection and enhancement of the environment and recognize the need to achieve a proper balance between environmental regulation and the socio-economic health of our communities within the constraints of available revenues. Such an approach requires regional cooperation due to the inter-jurisdictional nature of many environmental resources, and adequate state funding to support local and regional efforts.

### **Chesapeake Bay Preservation Act:**

We oppose legislation mandating expansion of the Chesapeake Bay Preservation Act's coverage area. Instead, we urge the State to 1) provide legal, financial and technical support to localities that wish to comply with any of the Act's provisions, 2) allow localities to use other practices to improve water quality, and 3) provide funding for other strategies that address point and non-point source pollution.

### **Biosolids:**

We support legislation enabling localities, as a part of their zoning ordinances, to designate and/or reasonably restrict the land application of biosolids to specific areas within the locality, based on criteria designed to further protect the public safety and welfare of citizens.

### **Alternate On-Site Sewage Systems:**

We support legislative and regulatory action to 1) ensure operation and maintenance of alternative on-site sewage systems in ways that protect public health and the environment, and 2) increase options for localities to secure owner abatement or correction of system deficiencies.

### **Dam Safety:**

We support dam safety regulations that do not impose unreasonable costs on dam owners whose structures meet current safety standards.

### **Water Supply:**

The State should be a partner with localities in water supply development and should work with and assist localities in addressing water supply issues, including investing in regional projects.

### **Noxious Weeds:**

We support changes to the *Code* and to the Virginia Invasive Species Management Plan that direct efforts to prevent and control damage caused by invasive species.

### **Program Administration:**

The State should not impose a fee, tax or surcharge on water, sewer, solid waste or other local services to pay for state environmental programs.

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## Finance

The Planning District's member localities believe the State should refrain from establishing local tax policy at the state level and allow local governments to retain authority over decisions that determine the equity of local taxation policy.

### **Local revenues:**

The State should not confiscate or redirect local general fund dollars to the state treasury. It should reverse action taken in 2012, and then expanded in 2015, which directed to the Literary

Fund a portion of fines and fees collected at the local level from the enforcement of local ordinances.

**Fiscal Impacts:**

We support reinstatement of the “first day” introduction requirement for bills with local fiscal impact.

**Transient Occupancy Tax:**

The State should ensure the appropriate collection of transient occupancy taxes from online transactions.

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## General Government

The Planning District’s member localities believe that since so many governmental actions take place at the local level, a strong local government system is essential. Local governments must have the freedom and tools to carry out their responsibilities.

**Local Government Operations:**

- We oppose intrusive legislation involving purchasing procedures; local government authority to establish hours of work, salaries and working conditions for local employees; matters that can be adopted by resolution or ordinance; and procedures for adopting ordinances.
- We support allowing localities to use alternatives to newspapers for publishing various legal advertisements and public notices.
- We oppose attempts to reduce sovereign immunity protections for localities.

**Elections:**

As elections administration has become more complex and both federal and state financial support for elections has been decreasing, we urge funding to address coming critical shortfalls in elections administration dollars and urge state funding for voting equipment replacement, as many older voting machines are exhibiting end-of-life problems.

**Freedom of Information Act:**

- We request that any changes to the Virginia Freedom of Information Act (FOIA) preserve 1) a local governing body’s ability to meet in closed session, 2) the list of records currently exempt from disclosure, and 3) provisions concerning creation of customized records.
- We support changes to allow local and regional public bodies to conduct electronic meetings as now permitted for state public bodies.

**Quality of Life Issues:**

- We oppose any changes to state law that further weaken a locality’s ability to regulate noise or the discharge of firearms.
- We support expanding local authority to regulate smoking in public places.

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## Health and Human Services

The Planning District’s member localities recognize that special attention must be given to developing circumstances under which people, especially the disabled, the poor, the young and the elderly, can achieve their full potential. Transparent state policies and funding for at-risk individuals and families to access appropriate services is critical. The delivery of such services must be a collaborative effort by federal, state and local agencies.

**Funding:**

- We oppose changes in state funding or policies that increase the local share of costs for human services. We also oppose any shifting of Medicaid matching requirements from the State to localities.
- The State should provide sufficient funding to allow Community Services Boards (CSBs) to meet the challenges of providing a community-based system of care. We believe children with mental health needs should be treated in the mental health system, where CSBs are the point of entry.
- We support increased investment in the MR waiver program for adults and young people and Medicaid reimbursement for children's dental services.
- We urge state funding to offset any increased costs to local governments for additional responsibilities for processing applications for the FAMIS program.
- We support sufficient state funding assistance for older residents, to include companion and in-home services, home-delivered meals and transportation.

**Social Services:**

- We support the provision of sufficient state funding to match federal dollars for the administration of mandated services within the Department of Social Services, and to meet the staffing standards for local departments to provide services as stipulated in state law.
- We believe the current funding and program responsibility for TANF employment services should remain within the social services realm.

**Prevention:**

We support continued operation and enhancement of early intervention and prevention programs, including school-based prevention programs. This would include the Virginia Preschool Initiative and the Child Health Partnership and Healthy Families program, as well as Part C of the Individuals with Disabilities Education Act (infants and toddlers).

**Childcare:**

The legislature should provide full funding to assist low-income working and TANF (and former TANF) families with childcare costs. These dollars help working-class parents pay for supervised daycare facilities and support efforts for families to become self-sufficient.

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## Housing

The Planning District's member localities believe that every citizen should have an opportunity to afford decent, safe and sanitary housing. The State and localities should work to expand and preserve the supply and improve the quality of affordable housing for the elderly, disabled, and low- and moderate-income households. Regional planning and solutions should be implemented whenever possible.

**Affordable Housing:**

We support the following: 1) local flexibility in the operation of affordable housing programs and establishment of affordable dwelling unit ordinances; 2) creation of a state housing trust fund; 3) grants and loans to low- or moderate-income persons to aid in purchasing dwellings; and 4) the provision of other funding to encourage affordable housing initiatives.

**Homelessness:**

We support measures to prevent homelessness and to assist the chronic homeless.

**Historic Structures:**

We support incentives that encourage rehabilitation and preservation of historic structures.

**Green Buildings:**

We encourage and support the use of, and request state incentives for using, environmentally friendly (green) building materials and techniques.

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## Public Safety

The Planning District's member localities encourage state financial support, cooperation and assistance for law enforcement, emergency medical care, criminal justice activities and fire services responsibilities carried out locally.

**Funding:**

- We urge the State to make Compensation Board funding a top priority, fully funding local positions that fall under its purview. It should not increase the local share of funding constitutional offices or divert funding away from them, but increase money needed for their operation.
- We support returning funding responsibility for the Line of Duty Act (LODA) to the State. In the absence of that, we support efforts to improve the administration of LODA and to ensure the long-term fiscal stability of the program.
- We urge continued state funding of the HB 599 law enforcement program in accordance with *Code of Virginia* provisions.
- The State should increase funding to the Virginia Juvenile Community Crime Control Act program, which has cut in half the number of juvenile justice commitments over the past decade.
- We support funding for mental health and substance abuse services at juvenile detention centers.

**Jails:**

- The State should restore per diem payments to localities 1) for housing state-responsible prisoners to \$14 per day, and 2) for housing local responsible offenders to \$8 per day.
- The State should not shift costs to localities by altering the definition of state-responsible prisoner.
- The State should continue to allow exemptions from the federal prisoner offset.

**Offender Programs and Services:**

- We support continued state funding of the drug court program and the Offender Reentry and Transition Services (ORTS), Community Corrections and Pretrial Services Acts.
- We support continued state endorsement of the role and authority of pretrial services offices.
- We support authorization for the court to issue restricted driver's licenses to persons denied them because of having outstanding court costs or fees.

**Body Cameras:**

We support the ability of local governments to adopt policies regarding law enforcement body worn cameras that account for local needs and fiscal realities.

**FLUVANNA COUNTY BOARD OF SUPERVISORS AGENDA ITEM**

**Meeting Date:** November 4, 2015

<b>AGENDA TITLE:</b>	Sheriff's Office Investigations Vehicle				
<b>MOTION(s):</b>	<b>I move to approve the purchase of a Ford F150 truck as a replacement Investigation Crime Scene vehicle for the Sheriff's Office, with the total price including accessories not to exceed \$35,000, and with such funds to come from the Unassigned Fund Balance.</b>				
<b>AGENDA CATEGORY:</b>	Public Hearing	Action Matter	Presentation	Consent Agenda	Other
<b>STAFF CONTACT(S):</b>	Sheriff Eric B. Hess, Sheriff				
<b>PRESENTER(S):</b>	Sheriff Eric B. Hess, Sheriff				
<b>RECOMMENDATION:</b>					
<b>TIMING:</b>	Routine.				
<b>DISCUSSION:</b>	County funds will be utilized to purchase and equip a new Sheriff's Office vehicle to be used by the Investigations Division to more effectively and efficiently investigate crime and process crime scenes.				
<b>FISCAL IMPACT:</b>	<ul style="list-style-type: none"> <li>\$34,806</li> </ul>				
<b>POLICY IMPACT:</b>	The Fluvanna County Sheriff's Office Investigations Division currently lacks a vehicle properly suited for crime scene investigations. The currently utilized vehicles lack the needed capacity, ability, and functionality needed to effectively access, illuminate, and process crime scenes. A larger properly equipped truck-based 4x4 would best fill this role. After exploring 3 vehicle options, it was decided that a Ford F150 Super Cab 4x4 with a camper shell would be the best solution given cost and capability. Further details are attached.				
<b>LEGISLATIVE HISTORY:</b>					
<b>ENCLOSURES:</b>	Project Estimate attached.				
<b>REVIEWS COMPLETED:</b>	Legal	Finance	Purchasing	HR	Other





*Fluvanna County Sheriff's Office*  
*Eric Hess - Sheriff*

Investigations Crime Scene Vehicle Proposal

**Purpose:**

The purpose of this proposal is to request funds to purchase and equip a special purpose vehicle for the Investigations Division of the Fluvanna County Sheriff's Office.

**Background:**

Currently the Investigations Division is comprised of four criminal investigators, this number includes the Division Commander. All investigators work a wide variety of cases and also conduct a vast majority of crime scene investigations.

The division currently has 2 Ford Explorers and 2 Chevy Impalas assigned. Due to the wide variety of work and services members of the division provide, they carry copious amount of gear and equipment, ranging from tactical gear, to crime scene processing tool boxes, to back-up supplies, to body bags. The investigators must also secure and maintain evidence, sometimes vast amounts or large items. At times this does include human remains, biological fluids, and other possible harmful substances. Carry all this cargo can prove difficult in the sedans and sometimes even the SUVs lack the space need. This reduces operational efficiency as there are times that someone has to return to the office for additional equipment which waste staffing and can degrade scene integrity.

Also, the division currently lacks the means to illuminate crime scenes in the dark. Additionally, the current car based SUV lack some of the off-road capability that has been required given the counties rural nature. In the past the division has had to either utilized personally owned vehicles or fire vehicles to access certain scenes.

**Proposal:**

After doing a cost/benefit analysis of three possible vehicles: the Chevy Tahoe, Ford Police Utility (Explorer) and the Ford F150 truck (4x4 Super Cab with camper shell), it was determined that the Ford F150 would best fill the needs of the division. The Tahoe was cost prohibitive and the Utility lacked needed functionality. The total cost of the completely equipped F150 is \$34,806. The F150 will have the needed storage, payload, off road ability, and scene illumination ability once equipped. The F150 will also have the added benefit of having the storage portion separate and encapsulated from the passenger compartment. This separation will be beneficial when evidence is odorous, contaminated, or emits harmful fumes. A breakdown of cost of all the vehicle options is attached.



*Fluvanna County Sheriff's Office  
Eric Hess - Sheriff*

**FORD F150**

2016 F150 Crew 4X4	\$25,855	Bluefield
Emergency Lighting	\$2,214.01	EVA
Bed Storage System	\$1,149.99	
		Sole
Camper Shell	\$2,407	Source
Push Bumper	\$592.25	
Scene Lighting	\$588.18	
Installation - equip	\$2,000	
	<b>\$34,806</b>	



**TAHOE**

2016 Chevy Tahoe	\$35,797	EVA
Storage System	\$362.98	
Emergency Lighting	\$2,214.01	EVA
Push Bumper	\$592.25	
Scene Lighting	\$588.18	
Installation - equip	\$2,000	
	<b>\$41,554</b>	



Fluvanna County Sheriff's Office  
160 Commons Blvd.  
Post Office Box 113; Palmyra, Virginia 22963  
Emergency: 911  
Non-Emergency: (ph) 434-589-8211; (fax) 434-589-6594  
Administration: (ph) 434-591-2013; (fax) 434-591-2012



*Fluvanna County Sheriff's Office*  
*Eric Hess - Sheriff*

**UTILITY**

2016 Utility	\$26,016	EVA
Emergency		
Lighting	\$2,214.01	EVA
Storage System	\$362.98	
Push Bumper	\$592.25	
Scene Lighting	\$588.18	
Installation - equip	\$2,000	
	\$31,773	



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*Fluvanna County Sheriff's Office*  
*Eric Hess - Sheriff*

ITEMS CONSISTENT FOR ALL VEHICLES

Emergency Lighting: Warning lights that illuminate the vehicle from a 360 degree field of view. Lights are purchased on eVA state contract.



Push Bumper: Front end deer strike protection. Purchased off Stafford contract.



Scene Lighting: Both vehicle mounted and remote flood lights. Remote will require power inverter.



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**2015 F-150 XL 4X2 (145" WB)  
TOWN OF BLUEFIELD CONTRACT #091412 ITEM 6  
VENDOR: SHEEHY FORD**

DESCRIPTION	FIG/99F/446/141	UNIT PRICE	QUANTITY EA Base Vehicle and Unique Options # 1	QUANTITY EA Base Vehicle and Unique Options # 2	QUANTITY EA Base Vehicle and Unique Options # 3	QUANTITY EA Base Vehicle and Unique Options # 4
F-150 XL 4X2 V-8 Engine Standard -		20,700.00	1	20,700.00		
Upgrade to Regular Cab 4x4 8.0' Bed	F1E/99F/141	2,050.00				
Upgrade to Super Cab 4x4 6.5' Bed	X1E/99F/145	4,450.00		4,500.00		
Upgrade to Super Cab 4x4 8' Bed (NA W/SSV)	X1E/99F/163	4,815.00				
Upgrade to Super Crew 4x4 5.5' Bed	W1E/99F/145	7,005.00				
Upgrade to Super Crew 4x4 6.5' Bed	W1E/99F/157	7,270.00				
XL SSV (Special Service Vehicle) Req Super Cab/Crew and 145" Wheelbase - 220 Amp Alt./40/blank/40 Cloth Front Seat Vinyl Rear Seat 66S (ONLY AVAILABLE WITH 145" WHEELBASE)	66S	50.00		50.00		
Class IV Trailer Towing Package - up to 5,000lbs	53B	195.00		195.00		
Medium Trailer Tow Package - up to 11,000lbs (XL/XLT)	53A	650.00				
Heavy Duty Payload Pkg (Req Trailer Tow& LONG BED)	627	1,450.00				
Snow Plow Prep Package	68P	50.00				
Integrated Trailer Brake Controller (Req Trailer Tow)	67T	250.00				
Manual Telescoping Trailer Tow Side Mirror (Req Trailer Tow Pkg 53A)	54M	90.00				
Manual Telescoping/Power Glass/Trailer Tow Side Mirror w/Heat (Req Trailer Tow Pkg 53A/Power Group 85S/LED Puddle/Side Mirror Light 59S)	54Y/59S	527.00				
XL Power Equip Group Regular Cab (Power Windows and Locks - Keyless-entry, Pwr Tailgate Locks, Perimeter Alarm, Illuminated Entry, Dual Pwr Glass Sideview Mirrors, Autolamp with Rainlamp Winshield Wipers, Daytime Running Lamps, MyKey Owner XL Power Equip Group Super/Crew Cab (Power Windows and Locks - Keyless-entry, Pwr Tailgate Locks, Perimeter Alarm, Illuminated Entry, Dual Pwr Glass Sideview Mirrors, Autolamp with Rainlamp Winshield Wipers, Daytime	85A	950.00				
Alarm, Illuminated Entry, Dual Pwr Glass Sideview Mirrors, Autolamp with Rainlamp Winshield Wipers Daytime	85A	1,053.00				
Skid Plate (4x4 only)	413	160.00		160.00		
Cruise Control	50S	200.00				
Daytime Running Lights	942	45.00				
Running Boards - Black Platform	18B	250.00		250.00		
Running Boards - Black Tubular Step Bar	18E	300.00				
Plastic Drop-in Bedliner	96P	350.00				
Spray-in Bedliner	96W	475.00				
Upgrade to 101A Equipment Group on F-150 Regular Cab (XL Pwr Group, AM/FM/CD, Cruise Control, Productivity Screen, Sync)	101A	1,629.00				
Upgrade to 101A Equipment Group on F-150 Super/Crew Cab (XL Pwr Group, AM/FM/CD, Cruise Control, Productivity Screen, Sync)	101A	1,803.00				
Additional Cost for Delivery (in excess of 300 miles) per mile. Enter the Number of miles.		.80				
<b>Subtotal Cost for Each Base Vehicle Plus Contract Options:</b>			1 ea	25,855.00	1 ea	#DIV/0!
<b>Total Cost for Each Base Vehicle Plus All Options:</b>			1 ea	25,855.00	1 ea	#DIV/0!
<b>Total Cost for All Base Vehicles Plus All Options:</b>			1	25,855.00	0	#DIV/0!

Estimated 2016 Pricing

Grand Total for Order: #DIV/0!

Enter Color and Other Information or Instructions in Yellow

**Customer Requested Additional Options (not on contract)**

DESCRIPTION	QTY	UNIT PRICE	TOTAL PRICE	TAX	DISCOUNT	NET PRICE	#DIV/0!	#DIV/0!	TOTAL
CREDIT FOR V-6 3.5L TIVCT FFV ENGINE	998	\$ (853.00)		\$	-	\$	-	\$	\$
Backup Alarm	85H	\$ 120.00		\$	-	\$	-	\$	\$
MAX Trailer Tow Package	53C	\$ 895.00		\$	-	\$	-	\$	\$
UPGRADE TO XLT		\$1,924.00		\$	-	\$	-	\$	\$
*UPGRADE TO 301A Equipment Group - XLT-	301A	\$1,834.00		\$	-	\$	-	\$	\$
Rearview Camera	76C	\$250.00		\$	-	\$	-	\$	\$
Box Side Steps	63S	\$300.00		\$	-	\$	-	\$	\$
Tailgate Step	63T	\$360.00		\$	-	\$	-	\$	\$
Black Tubular Step Bar (aftermarket)	VST	\$350.00		\$	-	\$	-	\$	\$
Limited Slip	XL6	\$ 513.00		\$	-	\$	-	\$	\$
Extra Keys		\$ 125.00		\$	-	\$	-	\$	\$
Shop Manual	Helm	\$ 200.00		\$	-	\$	-	\$	\$
Window Tint (legal)	VST	\$ 220.00		\$	-	\$	-	\$	\$
Weatherguard Tool Box #127-0-02	VST	\$ 910.00		\$	-	\$	-	\$	\$
<b>Total Cost for Each Base Vehicle Plus All Options:</b>			<b>\$ 25,855.00</b>				<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>\$</b>

\*The 301A Equipment Group includes these features:

Contract Line Item #	Vehicle Configurator			Option / Order Code	UNIT PRICE	K8A MARKED UTILITY ENTER QUANTITY IN YELLOW COLUMN ONLY.		K8A/16D UNMARKED UTILITY ENTER QUANTITY IN YELLOW COLUMN ONLY.	
	DPS Contract # E194-1334  eVA Commodity: Full Size Police Vehicle - 2016 Ford Police UTILITY  eVA Vendor: Haley Ford South  NIGP Commodity Code: 07105  This form may be used to order a model with the same options & configuration per model. Please complete a separate spreadsheet for models with different configurations/options. Grayed lines are not available for the model. Be sure to attach all spreadsheets to your Purchase Order. Complete the yellow blocks only. **The Contract # MUST be shown in the "Contract Number" Field of the Line item.								
1		K8A: MARKED UTILITY- 2016 Ford Police Interceptor, AWD, 500A, Base Vehicle (Be sure to indicate color choice below)	K8A	\$ 25,728.00	1	\$ 25,728.00			
2		K8A/19D: UNMARKED UTILITY, 2016 Ford Police Interceptor, AWD, 500A Base Vehicle (Be sure to indicate color choice below)	K8A/16D	\$ 25,728.00				\$ -	
3		Additional Delivery Charges -(Note: 50 Miles are included in the base price of each vehicle.) Only enter miles in excess of 50. The spreadsheet will auto calculate the mileage by the qty of vehicles ordered.	N/A	\$ 1.80		\$ -		\$ -	
<b>ADD-ON OPTIONS</b>									
A1	ENGINE	Engine Block Heater	41H	\$ 81.00		\$ -		\$ -	
A2	LAMPS / WIRING	Dark Car Feature	43D	\$ 18.00	1	\$ 18.00		\$ -	
A3		Daytime Running Lamps	942	\$ 40.50		\$ -		\$ -	
A4		Pre-Wiring for Grille Lamp, Siren and Speaker	60A	\$ 45.00		\$ -		\$ -	
A5		Spot Lamp - Driver Side - LED Bulb	51R	\$ 355.50		\$ -		\$ -	
A6		Door Spot lamp (driver and passenger) LED Bulb. Requires delete/credit of 21L, included with Base Vehicle, shown in delete section.	51S	\$ 558.00		\$ -		\$ -	
A7		Spot lamp -Driver Side -Incandescent Bulb Requires delete/credit of 21L, included with Base Vehicle, shown in delete section.	51Y	\$ 193.50		\$ -		\$ -	
A8		Door Spot lamp - (driver and passenger) incandescent bulb. Requires delete/credit of 21L, included with Base Vehicle, shown in delete section.	51Z	\$ 315.00		\$ -		\$ -	
A9		INTERIOR	Interior Upgrade Package (includes 88F)	65U	\$ 351.00		\$ -		\$ -
A10	1st and 2nd row carpet floor covering in lieu of vinyl		16C	\$ 112.50		\$ -		\$ -	
A11	2nd Row Cloth Seats (included in 65U)		88F	\$ 54.00		\$ -		\$ -	
A12	AUDIO / VIDEO	100 Watt Siren/Speaker (includes bracket and pigtail)	18X	\$ 270.00	1	\$ 270.00		\$ -	
A13		Rear View Camera (Requires 53M) Standard in 2016 Model		\$ -		\$ -		\$ -	
A14		SYNC Basic	53M	\$ 265.50		\$ -		\$ -	
A15		Re-mappable (4) switches on steering wheel with voice. (Requires 53M).	61S	\$ 139.50		\$ -		\$ -	
A16		Re-mappable (4) switches on steering wheel, less voice	61R	\$ 139.50		\$ -		\$ -	
A17	SAFETY / SECURITY	Perimeter Anti-theft Alarm - Activated by Hood, Door or Decklid	593	\$ 108.00		\$ -		\$ -	
A18		Remote Keyless Entry	595	\$ 234.00		\$ -		\$ -	
A19		Reverse Sensing	76R	\$ 247.50		\$ -		\$ -	
A20		BLIS (Requires 21B)	55B	\$ 490.50		\$ -		\$ -	
A21		Ballistic Door Panels - Driver Front Door Only	90D	\$ 1,426.50		\$ -		\$ -	
A22		Ballistic Door Panels - Driver & Passenger Front Door	90E	\$ 2,853.00		\$ -		\$ -	
A23		Heated Mirrors, Non-BLIS	549	\$ 54.00		\$ -		\$ -	
A24		Side Marker Lights in Sideview Mirrors	63B	\$ 261.00		\$ -		\$ -	
A25	DOORS / WINDOWS	Hidden Door Lock Plunger.	52H	\$ 126.00		\$ -		\$ -	
A26		Hidden Door Lock Plunger and Rear Door Handle Inoperable	52P	\$ 144.00		\$ -		\$ -	
A27		Rear Door Handles Inoperable / Locks Operable	68L	\$ 31.50		\$ -		\$ -	
A28		Rear Door Handles Inoperable / Locks Inoperable	68G	\$ 31.50		\$ -		\$ -	
A29		Windows - Rear window power delete, operable from front driver side switches.	18W	\$ 22.50		\$ -		\$ -	
A30		Glass - Solar Tint 2nd and 3rd Row (deletes Privacy Glass)	92G	\$ 108.00		\$ -		\$ -	
A31		Glass - Solar Tint 2nd Row Only (deletes Privacy Glass)	92R	\$ 76.50		\$ -		\$ -	
A32	BODY	Roof Rack Side Rails - Black	68Z	\$ 139.50		\$ -		\$ -	

A49	STD. PAINT OPTIONS (MUST CHOOSE ONE!)	Std. Exterior Color - Medium Brown Metallic	BU	\$ -		\$ -		\$ -
A50		Std. Exterior Color - Arizona Beige Clearcoat	E3	\$ -		\$ -		\$ -
A51		Std. Exterior Color - Smokestone Metallic	HG	\$ -		\$ -		\$ -
A52		Std. Exterior Color - Kodiak Brown Metallic	J1	\$ -	1	\$ -		\$ -
A53		Std. Exterior Color - Shadow Black	G1	\$ -		\$ -		\$ -
A54		Std. Exterior Color - Dark Toreador Red Metallic	JL	\$ -		\$ -		\$ -
A55		Std. Exterior Color - Norsesea Blue Metallic	KR	\$ -		\$ -		\$ -
A56		Std. Exterior Color - Dark Blue	LK	\$ -		\$ -		\$ -
A57		Std. Exterior Color - Royal Blue	LM	\$ -		\$ -		\$ -
A58		Std. Exterior Color - Light Blue Metallic	LN	\$ -		\$ -		\$ -
A59		Std. Exterior Color - Blue Jeans Metallic	N1	\$ -		\$ -		\$ -
A60		Std. Exterior Color - Ultra Blue Metallic	MM	\$ -		\$ -		\$ -
A64		Std. Exterior Color - Light Grey (Not Available)	FM	\$ -		\$ -		\$ -
A62		Std. Exterior Color - Silver Grey Metallic	TN	\$ -		\$ -		\$ -
A63		Std. Exterior Color - Ebony	UA	\$ -		\$ -		\$ -
A64		Std. Exterior Color - Sterling Grey Metallic	UJ	\$ -		\$ -		\$ -
A65	Std. Exterior Color - Ingot Silver Metallic	UX	\$ -		\$ -		\$ -	
A66	Std. Exterior Color - Medium Titanium Metallic	YG	\$ -		\$ -		\$ -	
A67	Std. Exterior Color - Oxford White	YZ	\$ -		\$ -		\$ -	

Standard Exterior Color:  
MUST CHOOSE ONE!

**DELETE OPTIONS**

D1	Delete Auxiliary Air Conditioning	-17A	\$ (488.00)		\$ -		\$ -
D2	Delete Full size wheel covers	-65L	\$ (48.00)		\$ -		\$ -
D3	Delete Red/White Dome Lamp (17T) in Cargo Area	-17T	\$ (40.00)		\$ -		\$ -
D4	Delete Tremco Anti-theft system stated in Base Vehicle.		\$ (75.04)		\$ -		\$ -
D5	Delete All non-standard and extra Radio Noise Suppression Equipment and Grounding Packages.	-20P	\$ (76.00)		\$ -		\$ -

**LOCAL GOVERNMENT ONLY OPTIONS**

L1	Local Government Only Option - Police Interceptor 22 – Tail Lamp Lighting Solution	66B	\$ 382.50		\$ -		\$ -
L2	Local Government Only Option - Police Interceptor 23 – Rear Lighting Solution	66C	\$ 409.50		\$ -		\$ -
L3	Local Government Only Option - Police Interceptor 24 – Cargo Wiring Upfit Package	67G	\$ 1,206.00		\$ -		\$ -
L4	Local Government Only Option - Federal Signal Siren/Light Controller w/ PA	PA640	\$ 370.00		\$ -		\$ -
L5	Local Government Only Option - Whelen Siren/Light Controller w/ PA	295SLSA 6	\$ 334.00		\$ -		\$ -

Total Cost for each Base Vehicle plus Mileage & Options 1 ea \$ 26,016.00 1 ea #DIV/0!

Column Totals for All Base Vehicle Plus Options 1 \$ 26,016.00 0 \$ -

Grand Total of all vehicles ordered on this spreadsheet: \$ 26,016.00

Enter Other Information or Instructions in Yellow Block to the Right (PICK COLOR CHOICES ABOVE)

This space may not be used to order items that are not on this contract above.

Use this spread sheet to configure your vehicle(s). You will need to use a separate column for each model type you are ordering. Use a separate spreadsheet for each model type ordered if it has different options. Only complete the Yellow cells in the spreadsheet with the Quantity for the base vehicle and each option you want to order. When you are done, name & save the spreadsheet to your hard drive. Log into to eVA. When you get to the add items page click on the non-catalog tab. Enter a separate line item for each model & configuration and your description as follows; Vehicle Year, Make & Model per contract <Enter Contract Number>, see attached spreadsheet titled \_\_\_\_\_ for this line item. When you get to the comments section of the requisition, check to include the comments and attachments; select the attach file option and attach this spread sheet as your attached file.

Contract Line Item #	Vehicle Configurator		Option / Order Code	UNIT PRICE	Vehicle Configuration 1 ENTER QUANTITY IN YELLOW COLUMN ONLY.		Vehicle Configuration 2 ENTER QUANTITY IN YELLOW COLUMN ONLY.	
	DPS Contract #: E194-73089 Effective 6-16-15 through 6-15-16	eVA Commodity: 4WD Chevrolet Tahoe, Police Pursuit Vehicle SSV			1	2	1	2
	eVA Vendor: R. K. Chevrolet Inc eVA Vendor ID#: C12226 NIGP Commodity Code: 07180  This form may be used to order up to two configurations. Please complete a separate spreadsheet for more models with different configurations/options. Any grayed lines mean the option is not available for the model. Be sure to attach all spreadsheets to your Purchase Order. Complete the yellow blocks only.							
1	2016, Chevrolet Tahoe SSV 4WD, 4-Door, Police Base Vehicle, (Note: This base vehicle includes many options - Use the Delete options to remove any unwanted items.)		CK1570 6/5W4/1 FL	\$ 35,797.00				
					1	\$ 35,797.00		\$ -
2	<b>Additional Delivery Charges</b> -(Note: 50 Miles are included in the base price of each vehicle.) Only enter miles in excess of 50. The spreadsheet will auto calculate the mileage by the qty of vehicles ordered.		n/a	\$ 1.80		\$ -		\$ -
A1	Engine Block Heater		K05	\$ 37.50		\$ -		\$ -
A2	Differential, Heavy Duty Locking Rear (included)		G80	\$ -		\$ -		\$ -
A3	Tires, all terrain, off road, blackwall		RC3	\$ 100.00		\$ -		\$ -
A4	Tire, Spare Tire, All Terrain, Blackwall (must use RC3 code also)		4JQ	\$ 17.50		\$ -		\$ -
A5	Seats, Bucket, Front, Cloth with floor console (console is non-removable)		A95/D07	\$ 125.00		\$ -		\$ -
A6	Seats, Vinyl Front Seats in Lieu of cloth front, middle 20% section removed, no console (rear seats will remain vinyl)		9S1	\$ -		\$ -		\$ -
A7	Keys - Key common, complete vehicle fleet / entire fleet (alternate to 6E8)		6E8	\$ 12.50		\$ -		\$ -
A8	Keys - Key, 6 Additional Keys		5HP	\$ 20.00		\$ -		\$ -
A9	Flooring - Floor covering, color-keyed carpeting w/ 9C1, to include B58 Floor mats		B30/B58	\$ 95.00		\$ -		\$ -
A10	Windows- switches, rear window inoperative		6N5	\$ 29.50		\$ -		\$ -
A11	Door Locks and handles, inside rear doors inoperative		6N6	\$ 29.50		\$ -		\$ -
A12	Lamps - Headlamps, daytime running lamps and automatic headlamp control delete. (for police stealth surveillance)		9G8	\$ 5.00		\$ -		\$ -
A13	Lamps - Lighting, Red and White front auxiliary dome lamp		6C7	\$ 85.00		\$ -		\$ -
A14	Lamps - spotlamps, left hand		7X6	\$ 245.00		\$ -		\$ -
A15	Lamps - Spotlamps, left and right hand		7X7	\$ 410.00		\$ -		\$ -
A16	Lamps - Flasher system, headlamp and taillamp, DRL compatible with control wire		6J7	\$ 247.50		\$ -		\$ -
A17	Wiring, Auxiliary Speaker		WX7	\$ 30.00		\$ -		\$ -
A18	Wiring, Grill Lamps and Siren Speaker		6J3	\$ 46.00		\$ -		\$ -
A19	Wiring, Horn and Siren Circuit		6J4	\$ 20.50		\$ -		\$ -
A20	Bodyside molding - molding, color-keyed bodysize (N/A with order codes GAN or GXG paint colors)		RWK	\$ 137.50		\$ -		\$ -
A21	Grounding - Ground Studs, auxiliary rear compartment		UT7	\$ 44.00		\$ -		\$ -
A22	Shop Service Manuals, one complete set		GMT14C KUV	\$ 275.00		\$ -		\$ -
A23	Recovery hooks, 2 front, frame mounts		V76	\$ 25.00		\$ -		\$ -
A24	Non-Deep tint glass - glass, solar absorbing, non deep tint *CREDIT*		AKP	\$ (147.50)		\$ -		\$ -
A25	Remote Vehicle Start		BTV	\$ 95.00		\$ -		\$ -
A26	Remote keyless entry package (6 additional transmitters)		AMF	\$ 37.50		\$ -		\$ -
A27	Power Pedals - Pedals, power-adjustable for accelerator and brake		JF4	\$ 75.00		\$ -		\$ -
A28	Theft-Feterrent System, content, disable		UTQ	\$ 5.00		\$ -		\$ -
A29	Paint Color Option: Silver Ice Metallic		GAN	\$ -		\$ -		\$ -
A30	Paint Color Option: Summit White		GAZ	\$ -		\$ -		\$ -
A31	Paint Color Option: Black		GBA	\$ -		\$ -		\$ -
A32	Paint Color Option: Champagne Silver Metallic		GWT	\$ -		\$ -		\$ -
A33	Paint Color Option: Tungston Metallic		GXG	\$ -		\$ -		\$ -
A34	Paint Color Option: Chrystal Red Tintcoat		GBE	\$ 247.50		\$ -		\$ -

A35	DELETE all non-factory noise suppression equipment (MUST delete 9C1 package)	-NOISE	\$ (15.00)		\$ -		\$ -
Total Cost for each Base Vehicle plus Mileage & Options				1 ea	\$ 35,797.00	1 ea	#DIV/0!
Column Totals for All Base Vehicle Plus Options				1	\$ 35,797.00	0	\$ -

Grand Total of all vehicles ordered on this spreadsheet: \$ **35,797.00**

Enter Other Information or Instructions in Yellow Block to the Right

Note: Entities may not order anything other than what's stated above. Buyers must choose a color choice above - do not enter it here.

Use this spread sheet to configure your vehicle(s). You will need to use a separate column for each model type you are ordering. Use a separate spreadsheet for each model type ordered if it has different options. Only complete the Yellow cells in the spreadsheet with the Quantity for the base vehicle and each option you want to order. When you are done, name & save the spreadsheet to your hard drive. Log into to eVA. When you get to the add items page click on the non-catalog tab. Enter a separate line item for each model & configuration and your description as follows; Vehicle Year, Make & Model per contract <Enter Contract Number>, see attached spreadsheet titled \_\_\_\_\_ for this line item. When you get to the comments section of the requisition, check to include the comments and attachments; select the attach file option and attach this spread sheet as your attached file.

**FLUVANNA COUNTY BOARD OF SUPERVISORS AGENDA ITEM**

**Meeting Date:** November 4, 2015

<b>AGENDA TITLE:</b>	Modified Compensation for Degrees, Licensures and Certification Policy				
<b>MOTION(s):</b>	<b>I move to approve the updated Policy I.5, <i>Additional Compensation for Degrees, Licensures and Certifications.</i></b>				
<b>AGENDA CATEGORY:</b>	Public Hearing	Action Matter	Presentation	Consent Agenda	Other
		XX			
<b>STAFF CONTACT(S):</b>	Gail Parrish, Human Resources				
<b>PRESENTER(S):</b>	Gail Parrish, Human Resources				
<b>RECOMMENDATION:</b>	approval				
<b>TIMING:</b>	July 1, 2015				
<b>DISCUSSION:</b>	<p>On October 7, 2015 the policy I.5, Additional Compensation for Degrees, Licensures and Certifications was approved contingent upon the Board directed modifications that will be ratified at a later date.</p> <p>As per the Board’s request the following modifications have been made to the policy:</p> <ul style="list-style-type: none"> <li>• Section 3, <u>Eligibility</u> <ul style="list-style-type: none"> <li>○ Pay is contingent upon budget authorization each year</li> <li>○ Eligible employees must be Benefit eligible with a regular schedule of 30 hours or more per week.</li> <li>○ Must have minimum of a satisfactory job performance evaluation.</li> <li>○ Certification/Licensure must enhance employee’s skills and competencies related to their current position.</li> <li>○ Degree must align to the employee’s current job and/or departmental functions and above that required for the position.</li> </ul> </li> <li>• Section 4.c, <u>Degrees</u> <ul style="list-style-type: none"> <li>○ Qualifying degree’s concentration must be within the scope or closely related to the employee’s position and/or the agency’s/department’s operating functions.</li> <li>○ Examples provided for different positions, but not inclusive.</li> </ul> </li> <li>• Section 5.b, <u>Application and Processing</u> <ul style="list-style-type: none"> <li>○ Forms recommended for approval by Directors/Agency Head/Constitutional Officer to go to Human Resources for review prior to going to the County Administrator for final approval.</li> </ul> </li> <li>• Section 6, <u>Base Salary Increases</u> <ul style="list-style-type: none"> <li>○ Added GED/Diploma</li> <li>○ Added to the Chart, per hour increase for 40 hours/week position</li> <li>○ In no case will an increase place an employee’s salary above the maximum of their position’s pay grad.</li> </ul> </li> </ul>				

<b>FISCAL IMPACT:</b>	FY16, ~ \$16,000				
<b>POLICY IMPACT:</b>	Addition to the Compensation Policy				
<b>LEGISLATIVE HISTORY:</b>	N/A				
<b>ENCLOSURES:</b>	Modified policy draft				
<b>REVIEWS COMPLETED:</b>	Legal	Finance	Purchasing	HR	Other
		<b>XX</b>		<b>XX</b>	<b>XX</b>

## **I.5 COMPENSATION FOR ADDITIONAL DEGREES, CERTIFICATIONS AND LICENSURES**

1. **Purpose.** To establish compensation policies for eligible Fluvanna County employees who attain degrees from accredited colleges and universities and/or job-related professional certifications and licensures from appropriate agencies.

### **2. Applicability**

a. This policy only applies to such degrees/certifications/licensures earned after an employee's initial employment date and after June 30, 2015.

b. The salary increases only apply to the attainment of the first degree at each level and/or the initial attainment of the certification/licensure, not re-certifications.

### **3. Eligibility**

a. Compensation is contingent upon budget authorization each year.

b. Employees must be a Permanent Benefit Eligible (i.e., regular work week schedule of 30 hours per week or greater).

(Note: Permanent benefit-eligible staff members who are regularly scheduled for less than 40 hours per week will receive a prorated amount based upon their full-time equivalency (FTE). For example: a scheduled 30-hour per week eligible employee counts for 0.75 FTE and will be eligible for an amount equal to 75% of the normal compensation amount.)

c. Eligible employees must have satisfactory job performance (minimum of overall "Meets Expectations") on their last performance evaluation.

d. The certification and/or licensure earned must be beneficial to the County such that it enhances employee's skills and competencies related to their current position.

e. The college degree earned must be aligned to the employee's current job and/or departmental functions and above that required for the position.

f. If a degree or certification/licensure is received after an employee has submitted a resignation, no additional compensation will be made.

### **4. Qualifying Degrees, Certifications, and Licensures.**

a. Certifications and Licenses. Approved certifications and licensures are typically those that are nationally recognized across a wide variety of industries and usually require a continuing education/training to maintain the certification or licensure. Although not possible to list all the

designations this may include, several examples are:

- Virginia Commercial Applicator Pesticide Certification
- Virginia Fertilizer Applicator Certificate
- AICP Certification for planners
- Building Code Official Certification
- Building Permit Technician Certification
- Microsoft Certified Solutions Certification (MCSC)
- Certified Public Accountant License
- Professional Engineer License
- Journeyman Plumbing License
- State sponsored certifications for specific agencies/offices

c. **Degrees.** A qualifying degree's concentration must be within the scope or closely related to the employee's position and/or the agency's/department's operating functions. Some examples would be, but not limited to:

- **Financial Services Specialist:** Degree in accounting, business administration, statistics, finance or public administration.
- **Program Support Specialist-Planning Department:** Degree in business administration, planning, communication or community development.
- **Grounds Specialist:** Degree in public works administration, horticulture, landscape architecture or management, urban design, engineering, geology or botany.
- **Sheriff's Deputy:** Degree in criminal justice, homeland security, paralegal, legal studies, or J.D.
- **Deputy Treasurer:** Degree in public administration, business administration, accounting, statistics, banking management, or communication.

## **5. Application and Processing**

a. The employee and his/her supervisor must complete a "Request for Compensation for Additional Degrees, Licenses & Certifications" form and submit it to the employee's Director, Constitutional Officer, or Agency Head for review and recommendation.

b. Additional Compensation forms recommended for approval by the employee's Director, Constitutional Officer, or Agency Head shall be forwarded to the HR Manager for review prior to final approval/disapproval by the County Administrator.

c. When possible and to help ensure applicability, requests should be submitted and approved prior to enrolling for the trainings/classes.

d. The approved form will be retained by the Director, with a copy in the employee's personnel record.

e. Once the degree/certification has been obtained, the employee should provide documentation of the degree/certification to their supervisor.

f. The supervisor will prepare a Personnel Action Request (PAR) and submit it to Human Resources along with the approved Request for Compensation for Additional Degrees, Licenses & Certifications.

## **6. Base Salary Increases**

a. For the completion of an approved academic degree/certification/licensure, the following individual base salary increases are authorized:

<b>Degree/Certification</b>	<b>Annual Increase</b>	<b>Per Hour Increase for 40 hours/week Position</b>
<b>GED / Diploma</b>	<b>\$ 250.00</b>	<b>\$0.12</b>
Certificate	\$ 500.00	\$0.24
Licensure	\$ 1,000.00	\$0.48
Associate	\$ 500.00	\$0.24
Bachelor	\$1,000.00	\$0.48
Master's/EDS/JD	\$1,500.00	\$0.72
Doctorate	\$2,000.00	\$0.96

b. The maximum salary increase for degrees and/or certifications in one year shall not exceed \$2,000.

**c. In no case will an increase place an employee's salary above the maximum of their position's pay grade.**

d. Pay increases during the budget year will be funded from the County's Personnel Contingency funds, and programmed into the department budget in subsequent years.

e. Pay increases for certifications/licensures that are paid for by State or other non-County funds will be by those salary funds and generally the procedure/application of the increase and the amount will be determined by the funding source.

f. Employees are responsible for keeping certifications and licensures current and up to date. If an employee's certification or licensure is not active on the first pay period of the fiscal year, their increase will be removed from their annual salary.

**FLUVANNA COUNTY**

**Request for Compensation for Additional Degrees, Licenses & Certifications**

<b>Section A – EMPLOYEE INFORMATION</b>		
Employee Name (Last, First MI)	Employee Number	Position Title
Department	Supervisor	Request Date
Degree, Licensure or Certification Program		Graduation/Completion Date
List any previous degrees, licenses or certifications earned		
How will the <b><u>degree, license, or certification</u></b> enhance your skills and benefit the County in your current role?		
Supervisor's Justification		
<b>Section B – REVIEW AND SIGNATURE</b>		
Employee Certification By signing this form, the employee acknowledges that the information provided is correct to the best of their knowledge.	Signature / Date	
Supervisor Recommendation / Comments <input type="checkbox"/> APPROVAL <input type="checkbox"/> DISAPPROVAL	Signature / Date	
Director/Con Off/Agency Recommendation / Comments <input type="checkbox"/> APPROVAL <input type="checkbox"/> DISAPPROVAL	Signature / Date	
Human Resources Recommendation / Comments <input type="checkbox"/> APPROVAL <input type="checkbox"/> DISAPPROVAL	Signature / Date	
<b>Section C – FINAL REVIEW</b>		
Action <input type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED	Effective Date	County Administrator Signature / Date
<b>Section D – FINANCE ACTION</b>		
Payroll Action		Finance Signature / Date

**FLUVANNA COUNTY BOARD OF SUPERVISORS AGENDA ITEM**

**Meeting Date:** November 4, 2015

<b>AGENDA TITLE:</b>	Approval of the Term Agreement for the Zion Crossroads Water & Sewer System Design and Related Services				
<b>MOTION(s):</b>	<p><b>I move the Board of Supervisors approve a term agreement between the County of Fluvanna, Virginia, and Dewberry Engineers Inc., for Zion Crossroads Water &amp; Sewer System design and related services, along with issuing the following task orders:</b></p> <ol style="list-style-type: none"> <li><b>1. PER Validation - \$22,550</b></li> <li><b>2. Geotechnical Engineering for Water and Sewer Lines - \$49,800</b></li> <li><b>3. Environmental Investigation &amp; Permitting Services Entire Project – \$25,210</b></li> <li><b>4. Utility Designation along Route 250 and at the Women’s Prison – \$57,530</b></li> <li><b>5. Water and Sewer Lines – Preliminary Design (through 65%) – \$64,380</b></li> <li><b>6. Elevated Water Storage Tank - Design - \$86,865</b></li> <li><b>7. Water Booster Station - Design - \$54,475</b></li> <li><b>8. Sewage Pump Station - Design - \$69,885</b></li> </ol> <p><b>Totaling \$430,695, and further authorize the County Administrator to execute the agreements subject to approval as to form by the County Attorney.</b></p>				
<b>AGENDA CATEGORY:</b>	Public Hearing	Action Matter	Presentation	Consent Agenda	Other
		<b>XX</b>			
<b>STAFF CONTACT(S):</b>	Cyndi Toler, Purchasing Officer				
<b>PRESENTER(S):</b>	Cyndi Toler, Purchasing Officer				
<b>RECOMMENDATION:</b>	Approval				
<b>TIMING:</b>	Current				
<b>DISCUSSION:</b>	<p>To engage Dewberry Engineers Inc. for multiple projects relating to design and construction services of a water and sewer system at Zion Crossroads in Fluvanna County.</p> <p>The scope of services relating to this project shall include, but is not limited to, civil engineering &amp; design; architectural design; site planning; construction phase services; drafting of any construction bid documents and review of bids; inspection services; and related engineering, review, environmental, geotechnical, and architectural services.</p>				

	<p>The firm may also be expected to assist the County with review of construction plans and specifications for the water and sewer system.</p> <p>Task orders for each project related to the water and sewer system described herein shall be issued by the County Administrator as services are needed and approved by the Board of Supervisors.</p> <p><b><u>Timeline of Prior Events</u></b></p> <ul style="list-style-type: none"> <li>- Mar 2015: Preliminary Engineering Report presented to BOS by RK&amp;K;</li> <li>- Jun 2015: RFP to begin selection process for an engineering firm to design the ZXR water/sewer system; 6 firms responded;</li> <li>- Aug 2015: 3 firms were selected and interviewed;</li> <li>- Sep 2015: Dewberry Engineers Inc. was selected as the highest ranking and most responsive bidder; began Negotiations;</li> <li>- Oct 2015: Negotiations with Dewberry completed.</li> </ul>				
<b>FISCAL IMPACT:</b>	<p><b><u>Project Funding Approvals To Date</u></b></p> <p>\$575,000 (Cash) approved in FY14 CIP (Less RK&amp;K PER Services - \$46,000)</p> <p>\$4,075,000 (Debt) approved in FY15 CIP (pending issuance)</p>				
<b>POLICY IMPACT:</b>	N/A				
<b>LEGISLATIVE HISTORY:</b>	N/A				
<b>ENCLOSURES:</b>	<p>Term Contract with:</p> <ul style="list-style-type: none"> <li>Exhibit 1 – RFP</li> <li>Exhibit 2 - Dewberry Initial Response</li> <li>Exhibit 3 - Dewberry Fee Proposal</li> <li>Task Order 1</li> <li>Task Order 2</li> <li>Task Order 3</li> <li>Task Order 4</li> <li>Task Order 5</li> <li>Task Order 6</li> <li>Task Order 7</li> <li>Task Order 8</li> </ul>				
<b>REVIEWS COMPLETED:</b>	Legal	Finance	Purchasing	HR	Other
	<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>

**TERM AGREEMENT FOR PROFESSIONAL SERVICES  
ZION CROSSROADS WATER & SEWER SYSTEM DESIGN/SERVICES**

This TERM AGREEMENT FOR PROFESSIONAL SERVICES (the “Agreement”) between Fluvanna County, Virginia (the “County”), a political subdivision of the Commonwealth of Virginia, and Dewberry Engineers Inc. (the “Consultant”), a New York corporation authorized to transact business in Virginia, describes the professional services to be provided as needed as set forth in the following paragraphs.

**WITNESSETH** that the Contractor and the County, in consideration of the mutual covenants, promises and agreements herein contained, agree as follows:

**ARTICLE 1: PURPOSE AND SCOPE OF SERVICES**

On June 1, 2015, the County issued Request for Proposals #2015-03 (the “RFP”) for qualified professional architectural and engineering services (the “Services”) on the Project, defined below, on an as-needed task order approach as more specifically set out in such RFP attached hereto as Exhibit 1. All the provisions and requirements, including, but not limited to, the purpose, scope of services and Exhibit 1 thereto being the Preliminary Engineering Report (the “PER”), of the RFP are incorporated herein by reference.

Written Project Agreements for task orders shall be issued by the County to a provider of such Services as Services are needed and may include any of those specified in the RFP, PER or other exhibit hereto, civil engineering and design, architectural design, site planning, construction phase services, inspection services, and associated surveying, environmental, geotechnical and architectural services. The purposes, functions, criteria and general requirements for the scope of work on the task order or particular project will be set forth in a written Project Agreement executed by the County and the Consultant and such shall be considered an addendum to this Agreement. The Consultant agrees that it is willing and able during the Agreement term to provide professional services on an “as needed” basis during the Agreement term.

The Project is defined as the design and related services for design and construction of the Water and Sewer System at Zion Crossroads in Fluvanna County, Virginia as described in the RFP and the PER attached hereto.

The Consultant submitted a response to the RFP on July 9, 2015, which is incorporated herein by reference and attached hereto as Exhibit 2 (the “Proposal”). The Consultant submitted a revised Fee Proposal on October 5, 2015 which revised and replaced all prior fee proposals, the final revised Fee Proposal is incorporated herein by reference and attached hereto as Exhibit 3 (the “Fee Proposal”). The County has relied on the statements of the Consultant in the Consultant’s Proposal and Fee Proposal in entering this Agreement and the Consultant represents and warrants that the statements made in the Proposal and Fee Proposal are still true and correct as of the date of this Agreement.

**ARTICLE II: PROJECT AGREEMENTS FOR TASK ORDERS**

For any task order assigned to the Consultant by the County pursuant to the terms of a Project Agreement, the Consultant will provide all services set forth in such Project Agreement consistent with this Agreement, and the Exhibits hereto, and in addition the following services:

- Meet with designated County representatives to confirm scope of services, project elements, budget and schedule.
- If applicable, initiate and complete general survey data collection necessary to undertake the funded components of the Project. The extent of the information gathered is to be the minimum amount necessary to allow preparation of design drawings and exhibits as applicable. Any surveys will be completed in accordance with AIA standards.
- As necessary, attend public meetings to discuss the project. The County will arrange the date and location of the meetings, and serve as facilitator.
- Refine the plans or project based on direction from the County.
- If applicable, meet with the local VDOT Resident Engineer, if necessary, and County staff to coordinate project design and obtain concurrence and direction with respect to proposed streetscape schemes and design alternatives;
- All Services rendered under this Agreement shall be done in a good and workmanlike manner and so as to pass without exception in the industry.
- All items provided and Services rendered under this Agreement shall be provided consistent with this Agreement, the applicable Project Agreement, RFP, PER and other exhibits hereto.

The Consultant warrants that it shall perform the Services and related work in accordance with the highest standards of care and diligence normally practiced by recognized engineering and consulting firms in performing services of a similar nature. If it is shown there is an error in the work caused solely by the Consultant's failure to meet such standards, and the County has promptly notified Consultant in writing of any such error within that period, the Consultant shall perform, at the Consultant's cost, such corrective work as may be necessary to remedy such error.

Paragraph 61(g)(i) of the General Terms shall be deleted and replaced with the following language: "Enter upon the performance of Services with all due diligence and dispatch, assiduously press to its complete performance, and exercise therein the highest standards of care and diligence normally practiced by recognized engineering and consulting firms in performing services of a similar nature."

Nothing herein shall be construed as to require the County to purchase any such Services from Consultant. Consultant acknowledges that it is one provider of such Services and that the County may purchase Services from any provider of Services and further that this Agreement does not limit the County's ability to procure or purchase such Services from other providers in any way. The County specifically reserves the right to procure services that fall within the scope of this Agreement from other sources. Without limiting the procurement procedures that may be followed by the County, the County may (i) issue RFP's for similar work and other projects as the need may occur; (ii) specifically reserves the right to enter into other term agreements for architectural and/or engineering services similar to this Agreement; and (iii) specifically reserves the right to enter into Project Agreements with other Consultant's under Term Agreements based on its evaluation of each Consultant's qualifications, expertise, current workload, capabilities, performance record, locations or distance to the project and other factors as may be pertinent to the Project.

### **ARTICLE III: EXHIBITS AND RESOLVING CONFLICTS**

The rights and duties of the County and Consultant applicable to the County's projects under this Agreement are set forth in the following Agreement Documents:

- (i) All Project Agreements under this Agreement;
- (ii) this Agreement,
- (iii) the County of Fluvanna General Terms Conditions and Instructions to Bidders and Contractors, being pages 10 to 22 of Exhibit 1 hereto;
- (iv) the Fee Proposal, being Exhibit 3 hereto;
- (v) the Proposal, being Exhibit 2 hereto; and
- (vi) the RFP, being Exhibit 1 hereto.

Whenever possible, the terms of the above Agreement Documents shall be read together, however in the event of a conflict, the order of preference above shall govern which Agreement Document will control. In other words, (i) shall control over (ii) to (vi) above, (ii) shall control over (iii) to (vi) above, etc.

#### **ARTICLE IV: FEES**

Fees for services under any Project Agreement shall be for the lump sum fee for each task as specifically set forth in the Fee Proposal attached hereto, except as laid out herein. The Consultant agrees the Fee Proposal includes all fees, costs and charges of any kind to perform all the services and work, including supplying at its own cost and expense any necessary tools, equipment or materials, necessary or desirable for completion of the task specified. Further the Consultant agrees that the lump sum fees for each task as shown in the Fee Proposal are not dependent on the County purchasing all or any specific Services on any other task(s). The Consultant and the County agree that should the overall Project scope be modified or altered by the County, then the Fee Proposal may be amended by written agreement of the County and Consultant to adjust for such modifications or alterations.

Project Agreements shall be entered into for each individual project, specifying additional Agreement terms applicable to the individual project, including but not limited to the following: (i) detailed scope of work for the project; (ii) pricing of the project; (iii) billing schedule for the project (whether periodic or on completed project basis); (iv) timing requirements for project performance; (v) identification of the County's project manager for the project, to whom invoices and other contacts regarding the specific project shall be directed.

In accordance with the provisions of Virginia Code Section 2.2-4301, the project fee of any single project under this Agreement shall not exceed \$100,000.00 and the sum of all projects performed under this Agreement in one Agreement term shall not exceed \$500,000.00.

#### **ARTICLE V: TERM**

This Agreement shall be in effect from the date of signature by the County for a one year period, or until the cumulative total project fees under this Agreement reach the maximum cost set forth in Article IV above, whichever is earlier. This Agreement shall be renewable for two additional one year terms at the option of the County. This Agreement shall automatically renew unless the County notifies the Consultant prior to the expiration of the current term of its intent not to renew this Agreement.

**ARTICLE VI: MISCELLANEOUS**

As appropriate to the context, the singular will include the plural and vice versa, and reference to one gender will include the others. This Agreement may be executed in one or more counterparts, each of which will be considered the Agreement for all purposes of proof. In addition to allowing electronic signatures upon an electronic copy of this Agreement, as provided by Virginia law, facsimile signatures upon any signature page will be considered to be original signatures. This Agreement contains the entire understanding of the parties with respect to the subject matter hereof and is to be modified only by a writing signed by the parties to this Agreement. This Agreement will be binding upon and inure to the benefit of the respective parties and their successors. This Agreement is not assignable by either party, except by operation of law. The legal address for the County and for the Consultant and the addresses for delivery of Notices and other documents related to the administration of this Agreement are as follows:

County

ATTN: Cyndi Toler, Purchasing Officer  
Fluvanna County  
P.O. Box 540  
Palmyra, VA 22963  
Telephone (434) 591-1930  
FAX (434) 591-1911

Consultant

Dewberry Engineers Inc.  
ATTN: David S. Maxwell, Vice President  
4805 Lake Brook Drive  
Suite 200  
Glen Allen, VA 23060  
Telephone (804) 290-7957  
FAX (804) 290-7928

Any party may substitute another address for the one set forth above by giving a notice in the manner required. Any notice given by mail will be deemed to be received on the fifth (5<sup>th</sup>) day after deposit in the United States mail. Any notice given by hand will be deemed to be received when delivered. Notice by courier will be deemed to have been received on the date shown on any certificate of delivery.

**[Signature page to follow.]**

**In witness whereof the undersigned duly authorized representatives have executed this Agreement on the dates set forth beside their respective signatures.**

ARCHITECT/ENGINEER

Dewberry Engineers Inc.

By: \_\_\_\_\_ Date: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Approved as to form:

County:

Fluvanna County

By: \_\_\_\_\_ Date: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

\_\_\_\_\_  
Fluvanna County Attorney

**COUNTY OF FLUVANNA, VIRGINIA  
REQUEST FOR PROPOSAL #2015-03  
ZION CROSSROADS WATER & SEWER SYSTEM DESIGN SERVICES**

ISSUE DATE: June 1, 2015

DUE DATE: July 9, 2015

TIME: 2:00 P.M.

RFP #: 2015-03

ISSUING DEPARTMENT: County of Fluvanna, Virginia  
Finance Department  
Attn: Joe Rodish, Purchasing Officer  
132 Main Street  
P.O. Box 540  
Palmyra, VA 22963

PROCUREMENT CONTACT: Joe Rodish  
Purchasing Officer  
Phone: (434) 591-1930 ext. 1124  
Email: [jrodish@fluvannacounty.org](mailto:jrodish@fluvannacounty.org)

TECHNICAL INQUIRIES: Joe Rodish  
Purchasing Officer  
Phone: (434) 591-1930 ext. 1124  
Email: [jrodish@fluvannacounty.org](mailto:jrodish@fluvannacounty.org)

The Fluvanna County Board of Supervisors invites qualified firms to submit sealed proposals for Professional Engineering and Architecture Services for projects relating to the design and construction of a water and sewer system in the Zion Crossroads area of Fluvanna County, VA. This Request for Proposal and resulting contract(s) shall be consistent with and governed by the Fluvanna County Procurement Policy and the Virginia Public Procurement Act.

Sealed proposals, One (1) original and four (4) copies, should be submitted by 2:00 P.M. local prevailing time on Thursday, July 9<sup>th</sup>, 2015 to the Fluvanna County Finance Office located at: 132 Main Street, Palmyra, Virginia 22963. Proposals submitted after this date and time will not be accepted. Proposals shall be evaluated for the purpose of selecting the most qualified Offeror(s) as described by the evaluation criteria.

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**I. Introduction**

- a. The Fluvanna County Board of Supervisors invites qualified firms to submit sealed proposals for Professional Engineering and Architectural Services for projects relating to the design and construction of a water and sewer system in the Zion Crossroads area of Fluvanna County, VA using a Task Order approach. This Request for Proposal and resulting contract(s) shall be consistent with and governed by the Fluvanna County Procurement Policy and the Virginia Public Procurement Act. Sealed proposals, One (1) original and four (4) copies, should be submitted by 2:00 P.M. local prevailing time on Thursday, July 9<sup>th</sup>, 2015 to the Fluvanna County Finance Office located at: 132 Main Street, Palmyra, Virginia 22963.
- b. Any communications pertaining to the scope of work, the preparation or submittal of a proposal, and all other communications regarding this Request for Proposal must be made in writing to:
  - i. Joe Rodish, Purchasing Officer  
County of Fluvanna, Virginia  
132 Main Street  
P.O. Box 540  
Palmyra, VA 22963  
(434) 591-1930 ext. 1124  
[jrodish@fluvannacounty.org](mailto:jrodish@fluvannacounty.org)

**II. Background**

- a. Fluvanna County, also referred to herein as “the County” is located in Central Virginia at the foothills of the Blue Ridge Mountains. The County serves an area of 290 square miles with a population of approximately 26,000. The County Seat is located in the Town of Palmyra with its County Administration Building located at 132 Main Street. The County’s fiscal year begins on July 1 and ends on June 30.
- b. The County uses the traditional board form of government with a County Administrator. The County is governed by an elected five member Board of Supervisors.
- c. The Professional Engineering and Architecture Firm’s principal contact with the County of Fluvanna will be the Director of Public Works, or a designated representative, who will coordinate with the Professional Engineering Firm to provide assistance to the County on an as needed basis.

Wayne Stephens, Director of Public Works  
197 Main Street  
P.O. Box 540  
Palmyra, Virginia 22963  
Phone number: (434) 591-1925  
Fax Number: (434) 591-1924  
E-mail: [wstephens@fluvannacounty.org](mailto:wstephens@fluvannacounty.org)

**III. Purpose**

- a. The County desires to engage the services of a qualified Professional Engineering and Architecture Firm to for multiple projects relating to the design and construction a water and sewer system at Zion Crossroad in Fluvanna County, Virginia as more specifically described herein on a task order approach. The scope of services relating to such projects shall include, but is not limited to, civil engineering & design; architectural design; site

planning; construction phase services; drafting of any construction bid documents and review of bids; inspection services; and related engineering, review, surveying, environmental, geotechnical, and architectural services. The awarded firm(s) may also be expected to assist the County with review of construction plans and specifications for the water and sewer system. Task orders for each project related to the water and sewer system described herein shall be issued by the County Administrator as services are needed.

#### IV. Scope of Services

- a. The County is seeking written proposals relating to Professional Engineering and Architectural Services for multiple projects relating to the design and construction of a water and sewer system in the Zion Crossroad area of Fluvanna County, Virginia, on a task order approach.
- b. The services to be rendered for these projects include design services, coordination, and support activities for the project elements listed in this RFP, and are generally described below.
  - i. Review and validation of the Preliminary Engineering Report (PER) for Water and Wastewater Services to Zion Crossroads Planning Area, attached hereto and incorporated herein by reference as a material part of this RFP. The review shall include a thorough review and critique or validation of the recommendations included in Section 7 of the final PER and the presentation of a deliverable in the form of a Basis of Design Memorandum which the winning offeror shall be prepared to present and discuss with the County staff.
  - ii. Final Engineering Design Services. This (these) project(s) shall include the tasks and deliverables necessary to complete the final engineering design and prepare bid-ready documents for the project elements listed in this RFP. This includes, but is not limited to, the following major services and deliverables:
    1. Development of a project CPM schedule for design and construction;
    2. Quality Control / Quality Assurance;
    3. Progress Meetings and Workshops;
    4. Coordination with County staff;
    5. Final Design of the Water Distribution System, Phase 1 and the Sewer System, Phase 1, as identified in Recommendations 7.09 and 7.11 in the Final PER;
    6. Coordination of the Final Design with the other recommendations included in the PER, to assure continuity and expandability of the Zion Crossroads Water and Sewer systems;
    7. Design support services (survey, geotechnical investigations, sampling, etc.);
    8. Development of a Theory of Operations, SOPs and Operations Planning for the systems;
    9. Presentations to the Fluvanna County Board of Supervisors as required;
    10. Preparation of an Engineer's Opinion of Cost; and
    11. Presentations, meetings and communications to the County staff as requested.
  - iii. Permitting Support Services. This scope item encompasses the tasks and

deliverables necessary to obtain the requisite permits, approvals and permissions for construction of the water and sewer system. The necessary permits, approvals and permissions include, but are not limited to, the following major anticipated permitting efforts:

1. VDH and DEQ Construction Permits;
2. VDOT Permits;
3. County Permits; and
4. Others as identified in this RFP, the PER or by the County.

iv. Pre-Construction Engineering Services. This scope item encompasses the tasks and deliverables necessary to transition and advance the project from the final design phase to construction phase. This includes, but is not limited to, the following major services and deliverables:

1. Development of Bid Documents;
2. Distributing Bid Documents to interested parties;
3. Coordinating and running Pre-Bid Conference(s);
4. Responding to questions from potential bidders and preparing Bid Addenda as needed;
5. Review of contractors' bids and providing advice regarding the qualifications of bids and bidders; and
6. Other services as identified.

c. Construction Phase Services (optional). At the County's discretion, an engineering and architecture firm may also be utilized for construction phase services related to the delivery of water and sewer systems. The scope of these services will be identified by the County during final design, and may include, but not be limited to, the following services and deliverable items:

1. Review of contractor's schedule and project management plan;
2. Shop Drawing & Submittal Review;
3. Review and response to contractors' RFIs;
4. Construction Inspection and Testing;
5. Start-up and Commissioning;
6. Operational Training;
7. Preparation of O&M Manuals;
8. Preparation of Record Drawing; and
9. Other services as identified.

d. Other Related Services (optional). Design of improvements to wastewater pumping and water booster pump stations and well facilities (including water storage tanks); water and sewer system modeling; professional services associated with design and operation of solid waste facilities; regulatory issues and coordination with regulatory agencies; site plan engineering and surveying related to site grading, environmental engineering, storm water drainage, traffic impact analysis, road design, erosion and sediment control measures and storm water management facilities; geotechnical services; construction administration; grants administration, and inspection services associated with capital improvement projects.

## V. Proposal Format

- a. The County will follow the evaluation process and selection criteria described in this Request for Proposals. In order to provide each Offeror an equal opportunity for consideration, adherence to a standardized proposal format is required. The format of each proposal must contain the following elements organized into separate chapters and sections, as the Offeror may deem appropriate.
- b. The County is not responsible for failure to locate, consider and evaluate qualification factors presented outside his format. The following paragraphs provide guidelines to each Offeror for information to include in the proposal:
- c. **Cover Letter** - Provide a cover letter cover letter that confirms the Offeror's understanding; of this Request for Proposal and a general understanding of the project.
- d. **Overview** - The purpose of this section is to provide Fluvanna County with an overview of the history, qualifications and abilities of the Offeror's firm and for the Offeror to demonstrate the specific qualifications of the staff the Offeror will assign to this project if selected. At a minimum, the proposal should:
  - i. Designate a Project Manager and indicate office location.
  - ii. Include the organization chart, functional discipline, and responsibilities of project team members.
- e. **Resumes** - Provide a concise resume or description of each team member's education, relevant professional experience, length of time employed by the Offeror and/or sub-consultant, and professional license.
- f. **Demonstrated History of Successful Projects** - Discuss the Offeror's ability to work in harmonious, non-adversarial relationships with Fluvanna County and their agents.
  - i. The personnel named in the proposal shall remain assigned to the project throughout the period of the contract unless requested to be replaced by the County. If the County requests an individual to be replaced (including any personnel of any sub-contractor), the Offeror shall do so within 30 days of the request, and without any additional charge to Fluvanna County. No replacement may be made without submission of a resume of the proposed replacement for approval by The County.
- g. **Proposed Sub-Consultants** - The Offeror shall clearly state whether it is proposing to subcontract any of the work herein. The names of all proposed sub-consultants shall be provided. By proposing such firm(s) or individuals, the Offeror assumes full liability for the sub-consultant's performance. The Offeror shall state the amount of previous work experience with the sub-consultant(s).
- h. **Project Approach** - Offeror's Project and Management Approach:
  - i. The purpose of this section is to provide Fluvanna County with the Offerors understanding and proposed approach to the project. The Offeror should discuss in detail the proposed management and project approach.
- i. **Representative Projects:**
  - i. This section of the Offeror's Proposal should list and describe representative clients currently served focusing on water and sewer system design projects. Describe the local office experience including the project name and location, brief

description of the project, description of the scope of services provided, and principal contact person.

- j. **Effective Cost Control** - Demonstrated history of effective control of project costs and ability to accomplish work in a timely manner:
  - i. Describe the Offeror’s cost control methodology
  - ii. Describe the approach for reducing project costs
  - iii. Describe the documentation, tracking and reporting system
  - iv. Describe the program for quality control.

k. **References:**

- i. Provide the current name, address, and telephone number of at least five (5) references the Offeror has served either currently or in the past three (3) years; preferably those where one or more of the project team members provided the same or similar services as requested herein. Indicate the Scope of Services provided to each reference.

**VI. Submittal Instructions**

- a. Each Offeror shall submit one (1) original and four (4) copies of its proposal.
  - i. An authorized representative of the Offeror shall sign proposals. All information requested should be submitted. Failure to submit all information requested may result in the County, requiring prompt submission of missing information and/or giving a lowered evaluation of the proposal. Proposals which are substantially incomplete or lack key information may be rejected by the County.
  - ii. Proposals should be organized in the order in which the requirements are presented in the RFP. All pages of the proposal should be numbered. Each paragraph in the proposal should reference the paragraph of the corresponding section of the RFP. It is also helpful to repeat the text of the requirement as it appears in the RFP. The proposal should contain a table of contents, which cross-references the RFP requirements. Information which the Offeror desires to present that does not fall within any of the requirements of the RFP should be inserted at an appropriate place or be attached at the end of the proposal and designated as additional material. Proposals that are not organized in this manner risk elimination from consideration if the evaluators are unable to find where the RFP requirements are specifically addressed.
  - iii. Each proposal shall be in writing and received in hard copy by the deadline. Oral proposals, proposals received by telephone, fax, telegraph, or email shall be rejected.
- b. Offerors shall not submit estimated man-hours or cost for services with their proposals.

**VII. Evaluation & Selection Criteria**

- a. All proposals received shall be evaluated based upon the evaluation criteria listed below.
  - i. Project team qualifications and experience **(25 pts.)**
  - ii. Offeror’s project and management approach **(20 pts.)**
  - iii. Representative projects **(10 pts.)**
  - iv. Ability to control project costs **(25 pts.)**
  - v. References **(5 pts.)**

- vi. Proximity and availability to Fluvanna County **(15 pts.)**
- b. Fluvanna County may arrange for discussions with Offerors submitting proposals for the purpose of obtaining additional information or clarification if needed.
- c. The Selection Committee may make such reasonable investigations as it deems proper and necessary to determine the ability of the Offeror to perform the work.
- d. Based on the consensus rankings, the highest ranked Offeror(s) will be invited to engage in discussions with the Selection Committee that may include, but are not necessarily limited to:
  - i. Explanations of the proposed approach
  - ii. Work plan
  - iii. Non-binding cost estimates
  - iv. Qualifications of the Offeror(s)
- e. Fluvanna County reserves the right to make such additional investigations as it may deem necessary to establish competency and financial stability of any Offeror. If, after the investigation, the evidence of competency and financial stability is not satisfactory, in the sole opinion of Fluvanna County, Fluvanna County reserves the right to reject the proposal

**VIII. Timeline**

- |                                |                 |            |
|--------------------------------|-----------------|------------|
| a. Request for Proposal issued |                 | 06/01/2015 |
| b. Proposals due by            |                 | 07/09/2015 |
| c. Selected Firm/s Interviewed | (Approximately) | 07/20/2015 |
| d. Contract Award              | (Approximately) | 08/19/2015 |

**IX. Contract Award**

- a. Awards shall be made to as many Bidders/Offerors as deemed necessary to fulfill the anticipated requirements of the County. The County may award contracts to multiple Offerors and use their services for some or all of the projects identified herein. The services described herein related to multiple projects and a task order shall be issued for each project. A project shall include such services as the County deems properly grouped together. The County may choose not to award a contract or task order for any or all projects described herein.
- b. In accordance with §2.2-4301.3.a of the Code of Virginia, the agreement shall be for an initial one (1) year term from the date of execution. Upon mutual consent, the County shall have the option to renew the contract up to four (4) additional one (1) year terms contingent upon need and availability of funds.
- c. Under the terms of agreement(s) made pursuant to this RFP, no individual **Task Order** fee shall exceed \$100,000. The aggregate total of fees for all **Task Orders** issued during any one-year term of the A/E Contract shall not exceed \$500,000.
- d. The Owner may, at its sole discretion, renew the Contract for an additional one-year Contract Term provided the option to renew was indicated in the RFP. If the Owner exercises its option to renew, the next Contract Term shall begin one year from the date of the execution of this Contract, or previous renewal, or the date that the Owner notifies the A/E that the option to renew is being exercised, whichever occurs first. A new aggregate

limit of \$500,000 shall apply to the second one-year Contract Term, without regard to the dollar amounts of Project Orders issued during the first year of the Contract. Any unused amounts from the first Contract Term are forfeited and shall not carry forward to the next Contract Term. Subsequent renewals up to a maximum of four (4) one year renewals shall follow the same procedures. The maximum number of renewals is stated in **§2.2-4301, Competitive Negotiations**.

- e. The Offeror shall provide Fluvanna County with original documents, bound and suitable for distribution. In addition, all electronic copies of documents shall be provided in a format compatible with Fluvanna County's word processing and AutoCAD hardware and software. All documents, including computer disks, shall become the property of Fluvanna County upon final payment of all fees to the Consultant as forth for in the contract. The County reserves the right to alter the documents and/or specifications for its purposes, but will provide a properly initialed revision block showing County responsibility for such changes.

## GENERAL TERMS, CONDITIONS AND INSTRUCTIONS TO BIDDERS AND CONTRACTORS

These General Terms, Conditions and Instructions to Bidders and Contractor (hereinafter referred to as the “General Conditions”) shall apply to all purchases and be incorporated into and be a part of each Solicitation (as defined below) and every Contract (as defined below) awarded by Fluvanna County, a political subdivision of the Commonwealth of Virginia (hereinafter referred to as the “County”) unless otherwise specified by the County in writing. Bidders, Offerors and Contractors or their authorized representatives are expected to inform themselves fully as to these General Conditions before submitting Bids or Proposals to and/or entering into any Contract with the County: failure to do so will be at the Bidder’s/Contractor’s own risk and except as provided by law, relief cannot be secured on the plea of error.

Subject to all Federal, State and local laws, policies, resolutions, regulations, rules, limitations and legislation, including the County’s Procurement Policies and Procedures, Bids or Proposals on all Solicitations issued by County will bind Bidders or Offerors, as applicable, and Contracts will bind Contractors, to all applicable terms, conditions, instructions, rules and requirements herein set forth unless otherwise SPECIFICALLY set forth by the County in writing in the Solicitation or Contract. All provisions of these General Conditions are material to any contract between the County and a Contractor.

### INTRODUCTION

1. **VIRGINIA PUBLIC PROCUREMENT ACT AND ETHICS IN PUBLIC CONTRACTING:** The Virginia Public Procurement Act of Virginia Code §§ 2.2-4300 *et seq.* (hereinafter the “VPPA”) is incorporated herein by reference. Nothing in these General Conditions is intended to conflict with the VPPA and in case of any conflict, the VPPA controls. Specifically, the provisions of Article 6 of the VPPA (Virginia Code §§ 2.2-4367 through 2.2-4377) relating to ethics in contracting, shall be applicable to all Solicitations and Contracts solicited or entered into by the County. By submitting their Bids or signing any Contract, all Bidders and Contractors certify that they have not violated any of the provisions of Article 6 of the VPPA, including, but not limited to, that their Bids are made without collusion or fraud and that they have not offered or received any kickbacks or inducements.
2. **DEFINITIONS:** The definitions of Virginia Code § 2.2-4301 are specifically incorporated herein by reference and as used in these General Conditions, whether capitalized or not, any of such defined terms have the same meaning as such terms have under the VPPA: such defined terms include: “Affiliate”, “Best Value”, “Business”, “Competitive Negotiation”, “Competitive Sealed Bidding”, “Construction”, “Construction Management Contract”, “Design-Build Contract”, “Employment Services Organization”, “Goods”, “Informality”, “Multiphase Professional Services Contract”, “Nonprofessional Services”, “Potential Bidder or Offeror”, “Professional Services”, “Public Body”, “Public Contract”, “Responsible Bidder or Offeror”, “Responsive Bidder”, “Reverse Auctioning” and “Services”. Additionally, as used in these General Conditions, the following terms, whether capitalized or not, have the following meanings:
  - a. **Bid/Proposal:** The offer of a Bidder or Offeror to provide specific Goods or Services at specified prices and/or other conditions specified in the Solicitation. The term “Bid” is used throughout these General Conditions and where appropriate includes the term “Proposal” or any modifications or amendments to any Bid or Proposal.
  - b. **Bidder/Offeror/Vendor:** Any individual(s), company, firm, corporation, partnership or other organization bidding or offering on any Solicitation issued by the County and/or offering to enter into Contracts with the County. The term “Bidder” is used throughout these General Conditions and where appropriate includes the term “Offeror” and/or “Vendor”.
  - c. **Contract:** Any contract to which the County will be a party.
  - d. **Contractor:** Any individual(s), company, firm, corporation, partnership, or other organization to whom an award is made by the County or whom enters into any contract to which the County is a party.

- e. County: The County of Fluvanna, a political subdivision of the Commonwealth of Virginia, including where applicable all agencies and departments of the County.
  - f. County Administrator: The Fluvanna County Administrator.
  - g. County Attorney: The Fluvanna County Attorney.
  - h. Purchasing Agent: The County Administrator is the County's Purchasing Agent and is responsible for the purchasing activity of Fluvanna County; and has signatory authority to bind the County to all contracts and purchases made lawfully under the Fluvanna County Small Purchasing Procedures. The Purchasing Agent has signatory authority to bind the County to all other contracts and purchases only after the contracts or purchases have been approved by a vote of the Fluvanna County Board of Supervisors.
  - i. General Terms, Conditions and Instructions to Bidders and Contractors (also referred to herein as the "General Conditions"): These General Terms, Conditions and Instructions to Bidders and Contractors shall be attached to and made a part of all Solicitations by the County and all Contracts to which the County is party.
  - j. His: Any references to "his" shall include his, her, their, or its as appropriate.
  - k. Invitation to Bid (also referred to herein as an "IFB"): A request which is made to prospective Bidders for their quotation on Goods or Services desired by the County. The issuance of an IFB will contain or incorporate by reference the General Conditions and the other specifications and contractual terms and conditions applicable to the procurement.
  - l. Purchasing Officer: The Purchasing Officer employed by the County and to whom Bidders/Contractors can submit questions relating to any Bid or Contract.
  - m. Request for Proposal (also referred to herein as a "RFP"): A request for an offer from prospective Offerors which shall indicate the general terms which are sought to be procured from Offerors. The RFP will specify the evaluation factors to be used and will contain or incorporate by reference the General Conditions and other applicable contractual terms and conditions, including any unique capabilities or qualifications that will be required of the Contractor.
  - n. Small Purchasing Procedures: The County's Small Purchasing Procedures, being Chapter 4 of the County's Procurement Policies and Procedures, a method of purchasing not requiring competitive sealed bids or competitive negotiation for single or term contracts for goods and services other than professional services if the aggregate or the sum of all phases is not expected to exceed \$50,000; and also allowing for single or term contracts for professional services without requiring competitive negotiation, provided the aggregate or the sum of all phases is not expected to exceed \$50,000.
  - o. Solicitation: The process of notifying prospective Bidders or Offerors that the County wishes to receive Bids or Proposals on a set of requirements to provide Goods or Services. "Solicitation" includes any notification of the County requirements may consist of public advertising (newspaper, County's website, or other electronic notification), the mailing of notices of Solicitation, any Invitation for Quotes ("IFQ"), Initiations to Bid ("IFB"), or Requests for Proposal ("RFP"), the public posting of notices, issuance of an Open Market Procurement ("OMP"), or telephone calls to prospective Bidders or Offerors.
  - p. State: The Commonwealth of Virginia.
3. **AUTHORITY**: The Purchasing Agent shall serve as the principal public purchasing official for the County, and shall be responsible for the procurement of goods, services, insurance and construction in accordance with the County's Procurement Policies and Procedures. The Purchasing Agent has responsibility and authority for negotiating, placing and when necessary modifying every Solicitation, Contract and purchase order issued by the County under the County's Small Purchasing Procedures. The Purchasing Agent has signatory authority to bind the County to all contracts and purchases made lawfully under the County's Small Purchasing Procedures. The Purchasing Agent has responsibility and authority for negotiating, placing and when necessary modifying every other Solicitation, Contract and purchase order issued by the County except that the Purchasing Agent has signatory authority to bind the County to all other contracts and purchases ONLY after the contracts or purchases have been adopted and approved by a vote of the Fluvanna County Board of Supervisors (the "Board").

Unless specifically delegated by the Board or the Purchasing Agent, and consistent with the limited authority granted thereto, no other County officer or employee is authorized to order supplies or Services, enter into purchase negotiations or Contracts, or in any way obligate the County for any indebtedness. Any purchase or contract made which is contrary to such authority shall be of no effect and void and the County shall not be bound thereby.

For convenience, the County's Purchasing Officer shall serve as an intermediary between the Purchasing Agent and the Bidder or Contractor and any Bidder or Contractor may direct communications regarding any purchase, Solicitation or Contract to the Purchasing Officer; however as stated *supra* only the Board or County's Purchasing Agent can bind the County and only upon the conditions stated *supra*.

### CONDITIONS OF BIDDING

4. **COMPETITION INTENDED:** It is the County's intent to encourage and permit open and competitive bidding in all Solicitations. It shall be the Bidder's responsibility to advise the County in writing if any language, requirement, specification, etc., or any combination thereof, stifles competition or inadvertently restricts or limits the requirements stated in a Solicitation to a single source. The County must receive such notification not later than seven (7) business days prior to the deadline set for acceptance of the Bids. In submitting a Bid, the Bidder guarantees that he or she has not been a party with other Bidders to an agreement to bid a fixed or uniform price. Violation of this implied guarantee shall render the Bid of any Bidder involved void.
5. **DISCRIMINATION PROHIBITED:** Pursuant to Virginia Code § 2.2-4310, the County does not discriminate against Bidders, Offerors or Contractors because of race, religion, color, sex, national origin, age, disability, status as a service disabled veteran, or any other basis prohibited by state law relating to discrimination in employment. Whenever solicitations are made, the County shall include businesses selected from a list made available by the Department of Minority Business Enterprise. Pursuant to Virginia Code § 2.2-4343.1, the County does not discriminate against "faith-based organizations", being a religious organization that is or applies to be a contractor to provide goods or services for programs funded by the block grant provided pursuant to the Personal Responsibility and Work Reconciliation Act of 1996, P.L. 104-193.
6. **CLARIFICATION OF TERMS:** Pursuant to Virginia Code § 2.2-4316, if any Bidder has questions or comments about the specifications or other Solicitation documents, the prospective Bidder should contact the County no later than seven (7) business days prior to the date set for the opening of Bids or receipt of Proposals. Any revisions to the Solicitation will be made only by written addendum issued by the County. Notifications regarding specifications may not be considered if received in less than seven (7) business days of the date set for opening of Bids/receipt of Proposals.
7. **MANDATORY USE OF COUNTY FORM AND TERMS AND CONDITIONS:** Unless otherwise specified in the Solicitation, all Bids must be submitted on the forms provided by the County, including but not limited to, a Cover Sheet or Pricing Schedule, if applicable, properly signed in ink in the proper spaces and submitted in a sealed envelope or package. Unauthorized modification of or additions to any portion of the Solicitation may be cause for rejection of the Bid. However, the County reserves the right to decide, on a case by case basis, in its sole discretion, whether to reject any Bid or Proposal which has been modified. These General Conditions are mandatory provisions of all Solicitations and all Contracts of the County.
8. **LATE BIDS & MODIFICATION OF BIDS:** Any Bid or modification thereto received at the office designated in the Solicitation after the exact time specified for receipt of the Bid is considered a late Bid or modification thereof. The County is not responsible for delays in the delivery of the mail by the U.S. Postal Service, private carriers or the inter-office mail system. It is the sole responsibility of the Bidder to ensure their Bid reaches County by the designated date and hour. The following rules apply to all Bids submitted to the County:
  - a. The official time used in the receipt of Bids/Proposals is that time on the automatic time stamp machine in the Finance Department;
  - b. Late Bids or modifications thereof will be returned to the Bidder UNOPENED, if Solicitation number, due date and Bidder's return address is shown on the container;
  - c. If a Bid is submitted on time, however a modification thereto is submitted after the due date and time, then the County in its sole discretion may choose to consider the original Bid except that the County may not consider such original Bid if the Bid is withdrawn by the Bidder pursuant to Section 9 below; and
  - d. If an emergency or unanticipated event or closing interrupts or suspends the County's normal business operations so that Bids cannot be received by the exact time specified in the Solicitation, then the due date/time specified for receipt of Bids will be deemed to be extended to the same time of day specified in the Solicitation on the first work day on which normal County business operations resume.
9. **WITHDRAWAL OF BIDS:**
  - a. Pursuant to Virginia Code § 2.2-4330, a Bidder for a public construction contract, other than a contract for construction or maintenance of public highways, may withdraw his Bid from consideration if the price bid was substantially lower than the other Bids due solely to a mistake in the Bid, provided the Bid was submitted in good faith, and the mistake was a clerical mistake as opposed to a judgment mistake, and was actually due to an unintentional arithmetic error or an unintentional omission of a quantity of work, labor or material made directly in the compilation of a Bid, which unintentional arithmetic error or unintentional omission can be clearly shown by objective evidence drawn from inspection of original work papers, documents and materials used in the preparation of the Bid sought to be withdrawn.
 

If a Bid contains both clerical and judgment mistakes, a Bidder may withdraw his Bid from consideration if the price bid would have been substantially lower than the other Bids due solely to the clerical mistake, that was an unintentional arithmetic error or an unintentional omission of a quantity of work, labor or material made directly in the compilation of a Bid that shall be clearly shown by objective evidence drawn from inspection of original work papers, documents and materials used in the preparation of the Bid sought to be withdrawn. The Bidder shall give notice in writing to the County of his or her claim of right to withdraw his or her Bid within two (2) business days after the conclusion of the Bid opening procedure and shall submit original work papers with such notice.
  - b. A Bidder for a Contract other than for public construction may request withdrawal of his or her Bid under the following circumstances:

- i. Bids may be withdrawn on written request from the Bidder received at the address shown in the Solicitation prior to the time of opening.
    - ii. Requests for withdrawal of Bids after opening of such Bids but prior to award shall be transmitted to the County, in writing, accompanied by full documentation supporting the request. If the request is based on a claim of error, documentation must show the basis of the error. Such documentation may take the form of supplier quotations, Bidder work sheets, etc. If Bid bonds were tendered with the Bid, the County may exercise its right of collection.
  - c. No Bid may be withdrawn under this Section 9 when the result would be the awarding of the Contract on another Bid of the same Bidder or of another Bidder in which the ownership of the withdrawing Bidder is more than five percent (5%).
  - d. If a Bid is withdrawn under the authority of this Section 9 the lowest remaining Bid shall be deemed to be the low Bid.
  - e. No Bidder who, is permitted to withdraw a Bid shall, for compensation, supply any material or labor to or perform any subcontract or other work agreement for the person or firm to whom the Contract is awarded or otherwise benefit, directly or indirectly, from the performance of the project for which the withdrawn Bid was submitted.
  - f. The County shall notify the Bidder in writing within five (5) business days of its decision regarding the Bidder's request to withdraw its Bid. If the County denies the withdrawal of a Bid under the provisions of this Section 9, it shall State in such notice the reasons for its decision and award the Contract to such Bidder at the Bid price, provided such Bidder is a responsible and responsive Bidder. At the same time that the notice is provided, the County shall return all work papers and copies thereof that have been submitted by the Bidder.
  - g. Under these procedures, a mistake shall be proved only from the original work papers, documents and materials delivered as required herein. The work papers, documents and materials submitted by the bidder shall, at the bidder's request, be considered trade secrets or proprietary information subject to the conditions of subsection F of Virginia Code § 2.2-4342.
- 10. ERRORS IN BIDS:** When an error is made in extending total prices, the unit Bid price will govern. Erasures in Bids must be initialed by the Bidder. Carelessness in quoting prices, or otherwise in preparation of the Bid, will not relieve the Bidder. Bidders/Offerors are cautioned to recheck their Bids for possible error. Errors discovered after public opening cannot be corrected and the Bidder will be required to perform if his or her Bid is accepted.
- 11. IDENTIFICATION ON BID ENVELOPE:** All Bids, Proposals and requested copies thereof submitted to the County shall be in a separate envelope or package, sealed and identified with the following information clearly marked on the outside of the envelope or package:
- a. Addressed as indicated on page 1 of the solicitation;
  - b. Solicitation number;
  - c. Title;
  - d. Bid due date and time;
  - e. Bidder's name and complete mailing address (return address); and
  - f. Pursuant to Virginia Code § 2.2-4311.2, the Bidder's identification number issued by the State Corporation Commission, or if the bidder is not required to be authorized to transact business in the Commonwealth as a foreign business entity under Title 13.1 or Title 50 or as otherwise required by law shall include in its bids or proposal a statement describing why the bidder or offeror is not required to be so authorized.

If a Bid is not addressed with the information as shown above, the Bidder takes the risk that the envelope may be inadvertently opened and the information compromised, which may cause the Bid to be disqualified. Bids may be hand delivered to the designated location in the County's offices. No other correspondence or other Proposals/Bids should be placed in the envelope. Any Bidder or Offeror that fails to provide the information required in (f) above shall not receive an award unless a waiver is specifically granted by the County Administrator.

- 12. ACCEPTANCE OF BIDS:** Unless otherwise specified, all formal Bids or Proposals submitted shall be valid for a minimum period of one hundred twenty (120) calendar days following the date established for opening or receipt, respectively, unless extend by mutual agreement of the parties. At the end of the one hundred twenty (120) calendar days the Bid/Proposal may be withdrawn at the written request of the Bidder. Thereafter, unless and until the Proposal is withdrawn, it remains in effect until an award is made or the Solicitation is canceled by the County. The County may cancel any Solicitation at any time by notice of such cancellation to the Bidders.
- 13. COMPLETENESS:** To be responsive, a Bid must include all information required by the Solicitation.
- 14. CONDITIONAL BIDS:** Conditional Bids are subject to rejection in whole or in part.
- 15. RESPONSE TO SOLICITATIONS:** In the event a Bidder cannot submit a Bid on a Solicitation, the Bidder is requested to return the Solicitation cover sheet with an explanation as to why the Bidder is unable to Bid on these requirements, or if there be no cover sheet for the Solicitation a letter to the County explaining the same.
- 16. BIDDER INTERESTED IN MORE THAN ONE BID AND COLLUSION:** More than one bid from an individual, firm, partnership, corporation or association under the same or different name will be rejected. Reasonable grounds for believing that a bidder is interested in more than one bid for the work contemplated will cause rejection of all bids in which the bidder is interested. Any or all bids may be rejected if there is any reason for believing that collusion exists among the bidders. Participants in such collusion may not be

considered in future bids for the same work. Each bidder, as a condition of submitting a bid, shall certify that he is not a party to any collusive action as herein defined. However, a party who has quoted prices on work, materials, or supplies to a Bidder is not thereby disqualified from quoting prices to other Bidders or firms submitting a Bid directly for the work, materials or supplies.

17. **BID OPENING:** Pursuant to Virginia Code § 2.2-4301, all Bids received in response to an IFB will be opened at the date, time and place specified, and announced publicly, and made available for inspection as provided in Section 21 of these General Conditions. Proposals received in response to an RFP will be made available for inspection as provided in Section 21 of these General Conditions.
18. **TAX EXEMPTION:** The County is exempt from the payment of any federal excise or any Virginia sales tax. The price bid must be net, exclusive of taxes. Tax exemption certificates will be furnished if requested by the Bidder.
19. **DEBARMENT STATUS:** By submitting their Bids, Bidders certify that they are not currently debarred from submitting Bids on Contracts by the County, nor are they an agent of any person or entity that is currently debarred from submitting Bids or Proposals on Contracts by the County or any agency, public entity/locality or authority of the State.
20. **NO CONTACT POLICY:** No Bidder shall initiate or otherwise have contact related to the Solicitation with any County representative or employee, other than the Purchasing Officer or Purchasing Agent, after the date and time established for receipt of Bids. Any contact initiated by a Bidder with any County representative, other than the Purchasing Officer or Purchasing Agent, concerning this Solicitation is prohibited and may cause the disqualification of the Bidder.
21. **VIRGINIA FREEDOM OF INFORMATION ACT:** As provided under Virginia Code § 2.2-4342, all proceedings, records, Contracts and other public records relating to procurement transactions shall be open to the inspection of any citizen, or any interested person, firm or corporation, in accordance with the Virginia Freedom of Information Act of Virginia Code §§ 2.2-3700 *et seq.*, except:
  - a. Cost estimates relating to a proposed procurement transaction prepared by or for the County shall not be open to public inspection;
  - b. Any competitive sealed bidding Bidder, upon request, shall be afforded the opportunity to inspect Bid records within a reasonable time after the opening of Bids but prior to award, except in the event that the County decides not to accept any of the Bids and to reopen the Contract. Otherwise, Bid records shall be open to public inspection only after award of the Contract;
  - c. Any competitive negotiation Offeror, upon request, shall be afforded the opportunity to inspect Proposal records within a reasonable time after the evaluation and negotiations of Proposals are completed but prior to award except in the event that the County decides not to accept any of the Proposals and to reopen the Contract. Otherwise, Proposal records shall be open to the public inspection only after award of the Contract;
  - d. Any inspection of procurement transaction records under this Section 21 shall be subject to reasonable restrictions to ensure the security and integrity of the records;
  - e. Trade secrets or proprietary information submitted by a Bidder, Offeror or Contractor in connection with a procurement transaction shall not be subject to public disclosure under the Virginia Freedom of Information Act; however, the Bidder, Offeror or Contractor must invoke the protections of this Section 21 prior to or upon submission of the data or other materials, and must identify the data or other materials to be protected and State the reasons why protection is necessary; and
  - f. Nothing contained in this Section 21 shall be construed to require the County, when procuring by “competitive negotiation” (RFP), to furnish a Statement of reasons why a particular Proposal was not deemed to be the most advantageous to the County.
22. **CONFLICT OF INTEREST:** Bidder/Contractor certifies by signing any Bid/Contract to/with the County that no conflict of interest exists between Bidder/Contractor and County that interferes with fair competition and no conflict of interest exists between Bidder/Contractor and any other person or organization that constitutes a conflict of interest with respect to the Bid/Contract with the County.

#### SPECIFICATIONS

23. **OMISSIONS OR DISCREPANCIES:** Any items or parts of any equipment listed in a Solicitation which are not fully described or are omitted from such specification, and which are clearly necessary for the completion of such equipment and its appurtenances, shall be considered a part of such equipment although not directly specified or called for in the specifications. Should a Bidder find a discrepancy or ambiguity in, or an omission from, the Solicitation, including the drawings and/or specifications, he or she shall so notify the County within twenty-four (24) hours of noting the discrepancy, ambiguity or omission and in any event no less than five (5) days prior to the date set for the opening of Bids. If necessary, the County will send a written addendum for clarification to all Bidders no later than three (3) days before the date set for opening of Bids. Any notification regarding specifications received less than five (5) days prior to the date set for the opening of Bids may or may not be considered by the County in its sole discretion. The Bidder shall abide by and comply with the true intent of the specifications and not take advantage of any unintentional error or omission, but shall fully complete every part as the true intent and meaning of the specifications and drawings. Whenever the mention is made of any articles, material or workmanship to be in accordance with laws, ordinances, building codes, underwriter’s codes, A.S.T.M. regulations or similar expressions, the requirements of these laws, ordinances, etc., shall be construed as to the minimum requirements of these specifications.
24. **BRAND NAME OR EQUAL ITEMS:** Pursuant to Virginia Code § 2.2-4315, unless otherwise provided in the Solicitation, the name of a certain brand, make or manufacturer does not restrict Bidders to the specific brand, make or manufacturer named; it conveys the general style, type, character, and quality of the article desired, and any article which the County in its sole discretion determines to be the equal of that specified, considering quality, workmanship, economy of operation, and suitability for the purpose intended, shall be

accepted. The Bidder is responsible to clearly and specifically indicate the product being offered and to provide sufficient descriptive literature, catalog cuts and technical detail to enable the County to determine if the product offered meets the requirements of the Solicitation. This is required even if offering the exact brand, make or manufacturer specified. Normally in competitive sealed bidding, only the information furnished with the Bid will be considered in the evaluation. Failure to furnish adequate data for evaluation purposes may result in declaring a Bid non-responsive. Unless the Bidder clearly indicates in its Bid that the product offered is "equal" product, such Bid will be considered to offer the brand name product referenced in the Solicitation.

25. **FORMAL SPECIFICATIONS:** When a Solicitation contains a specification which states no substitutes, no deviation therefrom will be permitted and the Bidder will be required to furnish articles in conformity with that specification.
26. **CONDITION OF ITEMS:** Unless otherwise specified in the Solicitation, all items shall be new, in first class condition.

#### AWARD

27. **RESPONSIBLE BIDDERS:** In determining whether a Bidder is a responsible Bidder as defined herein, at minimum, the following criteria will be considered:
- a. The ability, capacity and skill of the Bidder to perform the Contract or provide the service required under the Solicitation;
  - b. Whether the Bidder can perform the Contract or provide the service promptly, or within the time specified, without delay or interference;
  - c. The character, integrity, reputation, judgment, experience and efficiency of the Bidder;
  - d. The quality of performance of previous Contracts or Services;
  - e. The previous and existing compliance by the Bidder with laws and ordinances relating to the Contract or Services;
  - f. The sufficiency of the financial resources and ability of the Bidder to perform the Contract or provide the service;
  - g. The quality, availability and adaptability of the Goods or Services to the particular use required;
  - h. The ability of the Bidder to provide future maintenance and service for the use of the subject of the Contract;
  - i. The number and scope of the conditions attached to the Bid;
  - j. Whether the Bidder is in arrears to the County on debt or Contract or is a defaulter on surety to the County or whether the Bidder's County taxes or assessments are delinquent; and
  - k. Such other information as may be secured by the County, the Purchasing Agent or the Purchasing Officer having a bearing on the decision to award the Contract. If an apparent low Bidder is not awarded a Contract for reasons of nonresponsibility, the County shall so notify that Bidder and shall have recorded the reasons in the Solicitation or Contract file.
28. **AWARD OR REJECTION OF BIDS; WAIVER OF INFORMALITIES:** The County shall award the Contract to the lowest responsive and responsible Bidder complying with all provisions of the IFB, provided the Bid price is reasonable and it is in the best interest of the County to accept it. Awards made in response to a RFP will be made to the highest qualified Offeror whose Proposal is determined, in writing, to be the most advantageous to the County taking into consideration the evaluation factors set forth in the RFP. The County reserves the right to award a Contract by individual items, in the aggregate, or in combination thereof, or to reject any or all Bids and to waive any informality in Bids received whenever such rejection or waiver is in the best interest of the County. Award may be made to as many Bidders/Offerors as deemed necessary to fulfill the anticipated requirements of the County. The County also reserves the right to reject the Bid if a Bidder is deemed to be a non-responsible Bidder. Pursuant to Virginia Code § 2.2-4319, an IFB, a RFP, any other solicitation, or any and all bids or proposals, may be canceled or rejected by the County at any time. The reasons for cancellation or rejection shall be made part of the contract file. The County shall not cancel or reject an IFB, a RFP, any other solicitation, bid or proposal solely to avoid awarding a contract to a particular responsive and responsible bidder or offeror.
29. **EXCLUSION OF INSURANCE BIDS PROHIBITED:** Pursuant to Virginia Code § 2.2-4320, notwithstanding any other provision of law or these General Conditions, no insurer licensed to transact the business of insurance in the State or approved to issue surplus lines insurance in the State shall be excluded from presenting an insurance bid proposal to the County in response to a RFP or an IFB; excepting that the County may debar a prospective insurer pursuant to its Debarment Policy, see Chapter 2 of the County's Procurement Policies and Procedures.
30. **ANNOUNCEMENT OF AWARD:** Upon the award or announcement of the decision to award a Contract as a result of this Solicitation, the County will publicly post such notice on the County's bulletin board located at 132 Main Street, 2<sup>nd</sup> Floor, Palmyra, Virginia 22963. Award results may also be viewed on the County's website.
31. **QUALIFICATIONS OF BIDDERS OR OFFERORS:** The County may make such reasonable investigations as deemed proper and necessary to determine the ability of the Bidder to perform the work/furnish the item(s) and the Bidder shall furnish to the County all such information and data for this purpose as may be requested. The County reserves the right to inspect Bidder's physical facilities prior to award to satisfy questions regarding the Bidder's capabilities. The County further reserves the right to reject any Bid or Proposal if the evidence submitted by or investigations of, such Bidder fails to satisfy the County that such Bidder is properly qualified to carry out the obligations of the Contract and to complete the work/furnish the item(s) contemplated therein.
32. **TIE BIDS AND PREFERENCE FOR VIRGINIA PRODUCTS WITH RECYCLED CONTENT AND FOR VIRGINIA FIRMS:**
- a. Pursuant to Virginia Code § 2.2-4328, in the case of a tie bid on an IFB only, the County may give preference to Goods, Services and construction produced in Fluvanna County or provided by persons, firms or corporations having principal places of business in Fluvanna County. If such choice is not available, preference shall then be given to Goods produced in

Virginia, or for goods, services or construction provided by Virginia persons, firms, corporations, pursuant Virginia Code § 2.2-4324. If no County or State choice is available, the tie shall be decided publicly by lot. The decision by the County to make award to one or more such Bidders shall be final.

- b. Whenever the lowest responsive and responsible bidder is a resident of any other state and such state under its laws allows a resident contractor of that state a percentage preference, a like preference shall be allowed to the lowest responsive and responsible bidder who is a resident of Virginia and is the next lowest bidder. If the lowest responsive and responsible bidder is a resident of any other state and such state under its laws allows a resident contractor of that state a price-matching preference, a like preference shall be allowed to responsive and responsible bidders who are residents of Virginia. If the lowest bidder is a resident contractor of a state with an absolute preference, the bid shall not be considered. The Department of General Services shall post and maintain an updated list on its website of all states with an absolute preference for their resident contractors and those states that allow their resident contractors a percentage preference, including the respective percentage amounts. For purposes of compliance with this Section 32, the County may rely upon the accuracy of the information posted on this website.
  - c. Notwithstanding the provisions of subsections a and b, in the case of a tie bid in instances where goods are being offered, and existing price preferences have already been taken into account, preference shall be given to the bidder whose goods contain the greatest amount of recycled content.
  - d. For the purposes of this Section 32, a Virginia person, firm or corporation shall be deemed to be a resident of Virginia if such person, firm or corporation has been organized pursuant to Virginia law or maintains a principal place of business within Virginia.
33. **NEGOTIATION WITH LOWEST RESPONSIBLE BIDDER:** Pursuant to Virginia Code § 2.2-4318, unless cancelled or rejected, a responsive Bid from the lowest responsible Bidder shall be accepted as submitted, except that if the Bid from the lowest responsible Bidder exceeds available funds, the County may negotiate with the apparent low Bidder to obtain a Contract price within available funds. However, the negotiation may be undertaken only under conditions and procedures described in writing and approved by the County prior to issuance of the IFB and summarized therein.

**CONTRACT PROVISIONS**

34. **APPLICABLE LAW AND COURTS:** Any Bid or Contract resulting from a Solicitation and its terms, including, but not limited to, the parties' obligations under it, and the remedies available to each party for breach of it, shall be governed by, construed and interpreted in accordance with the laws of the Commonwealth of Virginia, and exclusive jurisdiction and venue of any dispute or matters involving litigation between the parties hereto shall be in the courts of Fluvanna County, Virginia. Any jurisdiction's choice of law, conflict of laws, rules, or provisions, including those of the Commonwealth of Virginia, that would cause the application of any laws other than those of the Commonwealth of Virginia, shall not apply. The Contractor shall comply with applicable federal, State and local laws, ordinances, rules and regulations in performance of the Contract.
35. **PROVISION AND OWNERSHIP OF INFORMATION:** The County shall make a good faith effort to identify and make available to the Contractor all non-confidential technical and administrative data in the County's possession which the County may lawfully release including, but not limited to Contract specifications, drawings, correspondence, and other information specified and required by the Contractor and relating to its work under any Contract. The County reserves its rights of ownership to all material given to the Contractor by the County and to all background information documents, and computer software and documentation developed by the Contractor in performing any Contract.
36. **DOCUMENTS:** All documents, including but not limited to data compilations, drawings, reports and other material, whether in hard copy or electronic format, prepared, developed or furnished by the Contractor pursuant to any Contract shall be the sole property of the County. At the direction of the County, the Contractor shall have the right to make copies of the documents produced available to other parties. The County shall be entitled to delivery of possession of all documents, upon payment in accordance with the terms of any Contract for the service incurred to produce such documents.
37. **CONFIDENTIALITY:** Contractor shall not publish, copyright or otherwise disclose or permit to be disclosed or published, the results of any work performed pursuant to this contract, or any particulars thereof, including forms or other materials developed for the County in connection with the performance by Contractor of its services hereunder, without prior written approval of the County. Contractor, cognizant of the sensitive nature of much of the data supplied by the County, shall not disclose any information (other than information which is readily available from sources available to the general public) obtained by it in the course of providing services hereunder without the prior written approval of the County, unless disclosure of such information by it is required by law, rule or regulation or the valid order of a court or administrative agency.
38. **INDEPENDENT CONTRACTOR:** The Contractor and any agents, or employees of the Contractor, in the performance of any Contract shall act as an independent contractor and not as officers, employees or agents of the County.
39. **INSURANCE:** The Contractor agrees that, during the period of time it renders services to the County pursuant to any Contract, it shall carry (and provide the County with evidence of coverage) the following minimum amounts of insurance:

Automobile	\$500,000	Liability	Medical Payment
			Comprehensive
			Collision
Public Liability	\$1,000,000		

Professional Liability	\$1,000,000	
Excess Liability	\$2,000,000	Aggregate Over Above Policy Limits (Excluding Professional Liability)
Worker's Compensation	Amount required by Virginia law	

The Contract may specifically require the Contractor to carry higher minimum amounts of insurance.

In addition, the Contractor shall require, and shall include in every subcontract, that any subcontractor providing any goods or services related to such Contract obtain, and continue to maintain for the duration of the work, workers' compensation coverage in the amount required by Virginia law.

- 40. **KEY PERSONNEL:** For the duration of any Contract, the Contractor shall make no substitutions of key personnel unless the substitution is necessitated by illness, death, or termination of employment, or as expressly approved by the County. The Contractor shall notify the County within five (5) calendar days after the occurrence of any of these events and provide the information required by the paragraph below.

The Contractor shall provide a detailed explanation of the circumstances necessitating any proposed substitution, complete resumes for the proposed substitute, and any additional information requested by the County. The proposed substitute should have comparable qualifications to those of the person being replaced. The County will notify the Contractor within fifteen (15) calendar days after receipt of all required information of its approval or disapproval of the proposed substitution.

- 41. **SEVERABILITY:** If any term, covenant or provision of these General Conditions or any Contract shall be held to be invalid, illegal or unenforceable in any respect, these General Conditions and any Contract shall remain in effect and be construed without regard to such provision.
- 42. **TITLES:** The titles and section headings herein and in any Contract are inserted solely for convenience and are not to be construed as a limitation on the scope of the provisions to which they refer.
- 43. **ATTORNEYS' FEES:** In the event of a dispute between the County and Contractor under any Contract which cannot be amicably resolved, in addition to all other remedies, the party substantially prevailing in any litigation shall be entitled to recover its reasonable expenses, including, but not limited to, reasonable attorneys' fees.
- 44. **NO WAIVER:** Neither any payment for, nor acceptance of, the whole or any part of the services by the County, nor any extension of time, shall operate as a waiver of any provision of any Contract, nor of any power herein reserved to the County, or any right to damages herein provided, nor shall any waiver of any breach of any Contract be held to be a waiver of any other or subsequent breach. Failure of the County to require compliance with any term or condition of any Contract shall not be deemed a waiver of such term or condition or a waiver of the subsequent enforcement thereof.
- 45. **NO FINANCE CHARGES:** No finance charges shall be paid by the County.
- 46. **ANTITRUST:** By entering into a Contract, the Contractor conveys, sells, assigns, and transfers to the County all rights, title and interest in and to all causes of the action it may now have or hereafter acquire under the antitrust law of the United States or the State, relating to the particular Goods or Services purchased or acquired by the County under said Contract. Consistent and continued tie bidding could cause rejection of Bids by the County and/or investigation for antitrust violations.
- 47. **PAYMENT:** Pursuant to Virginia Code § 2.2-4352, unless more time is provided in the Solicitation or Contract, payment will be made forty-five (45) days after receipt by the County of a proper invoice, or forty-five (45) days after receipt of all Goods or acceptance of work, whichever is later. The County reserves the right to withhold any or all payments or portions thereof for Contractor's failure to perform in accordance with the provision of the Contract or any modifications thereto. Within twenty (20) days of receipt of proper invoice or of goods or services, the County shall notify the Contractor if any defect or impropriety that would prevent payment by the payment date. The following provisions apply to such payments:
  - a. Invoices for items/Services ordered, delivered/performed and accepted shall be submitted by the Contractor in duplicate directly to the payment address shown on the purchase order, Solicitation or Contract, as applicable. All invoices shall show the Contract number, purchase order number, or Solicitation number, as applicable, and as required under Virginia Code § 2.2-4354, either the individual Contractor's social security number or the Contractor's federal employer identification number, whichever is applicable.
  - b. Any payment terms requiring payment in less than forty-five (45) days will be regarded as requiring payment forty-five (45) days after receipt of proper invoice or receipt of all Goods or acceptance of work, whichever occurs later. Notwithstanding the foregoing, offers of discounts for payment in less than forty-five (45) days are valid and enforceable.
  - c. Pursuant to Virginia Code § 2.2-4353, the date any payment shall be deemed the date of postmark in all cases where payment is made by mail.

- d. The County's fiscal year is July 1 to June 30. Contractors are advised to submit invoices, especially for Goods and/or Services provided in the month of June, for the entire month (i.e. June 1 - June 30), so that expenses are recognized in the appropriate fiscal year.
  - e. Any payment made by the Contractor to the County shall only be made in U.S. Dollars. If payment is received in foreign currency the County may, in its sole discretion, reject such payment and require immediate compensation in U.S. Dollars.
- 48. SUBCONTRACTORS:** Pursuant to Virginia Code § 2.2-4354, in the event that any subcontractors are used by Contractor in connection with the work, Contractor shall:
- a. Within seven (7) days after receipt of amounts paid to the Contractor for work performed by a subcontractor, either:
    - i. Pay the subcontractor for the proportionate share of the total payment received attributable to the work performed by the subcontractor under any Contract; or
    - ii. Notify the County and subcontractor, in writing, of his intention to withhold all or a part of the subcontractor's payment with the reason for nonpayment.
  - b. Contractor shall require each subcontractor to provide either (i) for an individual, their social security numbers, or (ii) for proprietorships, partnerships, and corporations to provide their federal employer identification numbers.
  - c. The Contractor shall pay interest to any subcontractor on all amounts owed by the Contractor that remain unpaid after seven days following receipt by the Contractor of payment from the County for work performed by the subcontractor under any Contract, except for amounts withheld as allowed in subdivision (a)(II) above. Unless otherwise provided under the terms of any Contract, interest shall accrue at the rate of one percent (1%) per month.
  - d. The Contractor shall include in each of its subcontracts under any Contract a provision requiring each subcontractor to include or otherwise be subject to the above payment and interest requirements (a), (b) and (c) with respect to each lower tier subcontractor.
  - e. The Contractor's obligation to pay an interest charge to a subcontractor pursuant to the payment clause in this Section 48 shall not be construed to be an obligation of the County. No Contract modification may be made for the purpose of providing reimbursement for such interest charge. No cost reimbursement claim may include any amount for reimbursement for such interest charge.
- 49. RETAINAGE ON CONSTRUCTION CONTRACTS:** Pursuant to Virginia Code 2§ 2.2-4333, if a Contract for construction provides for progress payments in installments based upon an estimated percentage of completion, then the contractor shall be paid at least ninety-five percent (95%) of the earned sum when payment is due, with no more than five percent (5%) being retained to ensure faithful performance of the contract. All amounts withheld may be included in the final payment. Any subcontract related to work on a Contract that provides for similar progress payments shall be subject to the provisions above and the Contractor agrees to include such provisions in every subcontract.
- 50. SUCCESSORS AND ASSIGNS:** The County and the Contractor bind themselves and their respective successors and assigns to any Contract. The foregoing notwithstanding, the Contractor shall not assign, sublet or transfer its interest in any Contract without the prior written consent of the County, which may be granted or withheld in the County's sole discretion. Nothing hereinafter mentioned shall be construed as creating any personal liability on the part of any officer, agent or employee of the County, nor shall it be construed as giving any benefits hereunder to anyone other than the County and the Contractor.
- 51. DEFAULT:** Failure of a Contractor to deliver Goods or Services in accordance with Contract terms and conditions and/or within the time specified, or within reasonable time as interpreted by the County in its sole discretion, or failure to make replacements/corrections of rejected articles/services when so requested, immediately or as directed by the County, or failure of the Contractor to act in accordance with the Contract in any material respect, as reasonably determined by the County, shall constitute a "default" by the Contractor and shall further authority for the County to purchase in the open market articles/services of comparable grade/quality to replace the services, articles rejected, and/or not delivered. On all such purchases, the Contractor shall reimburse the County, within a reasonable time specified by the County, for any expense incurred in excess of Contract prices including, but not limited to, any purchase and administrative costs. Such purchases shall be deducted from the Contract quantities, if applicable. Should public necessity demand it, the County reserves the right to use or consume articles delivered or services performed which are substandard in quality, subject to an adjustment in price to be determined by the County. In case of any default, the County, after due oral or written notice if required in accordance with the Contract, may terminate the Contract at its option in its sole discretion effective immediately. These remedies shall be in addition to any other remedies which the County may have, including but not limited to, any remedies at law, under the Contract or in equity.
- Notwithstanding the foregoing, the Contractor shall not be liable for damages for delay in shipment or failure to deliver when such delay or failure is the result of fire, flood, strike, act of God, act of Government, act of an alien enemy or by any other circumstances which, in the County's opinion, are beyond the control of the Contractor. Under such circumstances, however, the County may, at its sole discretion, terminate or cancel the Contract effective immediately.
- 52. NON-DISCRIMINATION ASSURANCES:** The Contractor shall conform to the provisions of the Federal Civil Rights Act of 1964, as amended, as well as the Virginia Fair Employment Act of 1975, as amended, where applicable, and § 2.2-4311 of the Virginia Procurement Act:

- a. During the performance of any Contract, the Contractor agrees as follows: the Contractor will not discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin, age, disability, or other basis prohibited by state law relating to discrimination in employment, except where there is a bona fide occupational qualification reasonably necessary to the normal operation of the Contractor. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause. The Contractor, in all Solicitations or advertisements for employees placed by or on behalf of the Contractor, will state that such Contractor is an equal opportunity employer. Notices, advertisements and Solicitations placed in accordance with federal law, rule or regulation shall be deemed sufficient for the purpose of meeting the requirements of this Section 52.
- b. The Contractor shall include the provisions of paragraph (a) above in every subcontract or purchase over \$10,000.00 so that the provisions will be binding upon each subcontractor or Vendor.

**53. MODIFICATION:**

- a. Pursuant to Virginia Code § 2.2-4309, these General Conditions and any Contract entered into by the County and any Contractor shall not be subject to change, modification, or discharge except by written instrument signed by the County and Contractor, but no fixed-price contract may be increased by more than twenty-five percent (25%) of the amount of the contract or \$50,000, whichever is greater, without the advance written approval of the County's Board. In no event may the amount of any contract, without adequate consideration, be increased for any purpose, including, but not limited to, relief of an offeror from the consequences of an error in its bid or offer.
- b. The County may, but is not obligated to, extend the term of an existing contract for services to allow completion of any work undertaken but not completed during the original term of the contract.
- c. Nothing in this Section 53 shall prevent the County from placing greater restrictions on contract modifications.

**54. INDEMNIFICATION:** Contractor agrees to indemnify, keep and save harmless the County, its officers, agents, officials, employees and volunteers against any and all claims, claims of injuries, death, damage to property, patent claims, suits, liabilities, judgments, losses, costs and expenses, including but not limited to costs of investigation, all reasonable attorneys' fees (whether or not litigation results), and the cost of any appeal, occurring or arising in connection with the Contractor's, its agents', subcontractors', employees', or volunteers' negligence or wrongful acts or omissions in connection with its performance of any Contract. The Contractor shall, at his or her own expense, appear, defend and pay all charges of attorneys and all costs and other expenses arising therefrom or incurred in connection therewith; and if any judgment shall be rendered against the County in any such action, the Contractor shall, at his or her own expenses, satisfy and discharge the same. Contractor expressly understands and agrees that any performance bond or insurance protection required by any Contract, or otherwise provided by the Contractor, shall in no way limit the responsibility to indemnify, keep and save harmless and defend the County as herein provided. Nothing contained in this Solicitation or the Contract shall be deemed to be a waiver of the County's sovereign immunity.

**55. DRUG-FREE WORKPLACE:** Pursuant to Virginia Code § 2.2-4312, in every Contract over \$10,000.00 the following provisions apply: During the performance of any Contract, the Contractor agrees to (i) provide a drug-free workplace for the Contractor's employees; (ii) post in conspicuous places, available to employees and applicants for employment, a Statement notifying employees that the unlawful manufacture, sale, distribution, dispensation, possession, or use of a controlled substance or marijuana is prohibited in the Contractor's workplace and specifying the actions that will be taken against employees for violations of such prohibition; (iii) state in all Solicitations or advertisements for employees placed by or on behalf of the Contractor that the Contractor maintains a drug-free workplace; and (iv) include the provisions of the foregoing clauses in every subcontract or purchase order of over \$10,000, so that the provisions will be binding upon each subcontractor or vendor.

For the purposes of this Section, "*drug-free workplace*" means a site for the performance of work done in connection with a specific Contract awarded to a Contractor in accordance with this the VPPA and the County's Procurement Procedures, the employees of whom are prohibited from engaging in the unlawful manufacture, sale, distribution, dispensation, possession or use of any controlled substance or marijuana during the performance of the Contract.

**56. TERMINATION:** Contracts will remain in force for full periods specified and/or until all articles ordered before date of termination shall have been satisfactorily delivered and accepted and thereafter until all requirements and conditions shall have been met, unless:

- a. Terminated prior to expiration date by satisfactory deliveries of entire Contract requirements;
- b. Terminated by the County upon thirty (30) days written notice to the Contractor at the County's convenience in the County's sole discretion ("termination for convenience"), unless a termination for convenience is specifically and expressly prohibited by the Contract. Any Contract cancellation notice shall not relieve the Contractor of the obligation to deliver and/or perform on all outstanding orders issued prior to the effective date of the termination;
- c. Terminated by the County for cause, default or negligence on the part of the Contractor. However, pursuant to Section 51 of these General Conditions, the County may hold the Contractor responsible for any resulting additional purchase and administrative costs. There is no advance notice requirement in the event of Termination for Cause and termination is effective immediately upon notice to Contractor of the termination for cause;

- d. Extended upon written authorization of County and accepted by Contractor, to permit ordering of unordered balances or additional quantities at Contract prices and in accordance with Contract terms.
- 57. APPROPRIATIONS:** Notwithstanding any other provision of any Contract, the payment of the County's obligations under any Contract shall be subject to annual appropriations by the Board of Supervisors of the County in each fiscal year of monies sufficient to satisfy the same.
- 58. REFERENCES TO VIRGINIA LAW:** Any reference in these General Conditions to the Code of Virginia or other relevant Federal, State or local law is incorporated in whole herein by reference as in effect at the time of the Solicitation or Contract as such statutory provisions may be amended or replaced by any statute dealing with the same or similar subject matter.
- 59. COOPERATIVE PROCUREMENT:** Except as prohibited by the current Code of Virginia, all resultant Contracts will be extended to other Public Bodies of the Commonwealth of Virginia, to permit their ordering of Goods, supplies and/or Services at the prices and terms of the resulting Contract ("cooperative procurement"). By submitting any Bid or entering into any Contract with the County a Bidder/Contractor expressly authorizes cooperative procurement under Virginia Code § 2.2-4304 to the full extent permitted by law. If any other public body decides to use any Contract, the Contractor must deal directly with that public body concerning all matters relating thereto, including but not limited to, the placement or orders, issuance of the purchase order, contractual disputes, invoicing and payment. The County acts only as the "Contracting Agent" for these public bodies. Any resulting contract with other public bodies shall be governed by the laws of that specific entity. It is the Contractor's responsibility to notify the public bodies of the availability of the Contract. Fluvanna County shall not be held liable for any direct or indirect costs, damages or other claim of any kind incurred by another public body or any Contractor as a result of any cooperative procurement.
- 60. AUDIT:** The Contractor hereby agrees to retain all books, records and other documents relative to any Contract for five (5) years after final payment, or until audited by the County, whichever is sooner. The County, its authorized agents, and/or County auditors shall have full access to and right to examine any of said materials during said period.
- 61. GUARANTIES AND WARRANTIES:** All guarantees, representations and warranties required shall be furnished by the Contractor and shall be delivered to the Purchasing Agent before final payment on any Contract is made. In addition to any guarantees, representations and warranties required under the Contract, the Contractor agrees to:
- a. Save the County, its agents and employees harmless from liability of any nature or kind for the use of any copyrighted or uncopyrighted composition; secret process, patented or unpatented; invention; article or appliance furnished or used in the performance of a Contract for which the Contractor is not the patentee, assignee, licensee or owner;
  - b. Protect the County against latent defective material or workmanship and to repair or replace any damages or marring occasioned in transit or delivery;
  - c. Furnish adequate protection against damage to all work and to repair damages of any kind to the building or equipment, to the Contractor's own work or to the work of other contractors, for which the Contractor's workers are responsible;
  - d. Pay for all permits, licenses and fees and give all notices and comply with all laws, ordinances, rules and regulations of the County; and
  - e. Protect the County from loss or damage to County owned property while it is in the custody of the Contractor;
  - f. At minimum supply all Goods or Services with the manufacturer's standard warranty, if applicable; and
  - g. For any Contract involving Services of any nature, the Contractor further agrees to:
    - i. Enter upon the performance of Services with all due diligence and dispatch, assiduously press to its complete performance, and exercise therein the highest degree of skill and competence;
    - ii. Allow Services to be inspected or reviewed by an employee of the County at any reasonable time and place selected by the County;
    - iii. Acknowledges that the County shall be under no obligation to compensate Contractor for any Services not rendered in strict conformity with the Contract; and
    - iv. Stipulates that the presence of a County Inspector shall not lessen the obligation of the Contractor for performance in accordance with the Contract requirements, or be deemed a defense on the part of the Contractor for infraction thereof. The Inspector is not authorized to revoke, alter, enlarge, relax, or release any of the requirements of any Contract. Any omission or failure on the part of the Inspector to disapprove or reject any work or material shall not be construed to be an acceptance of any such defective work or material.
- 62. PRICE REDUCTIONS:** If at any time after the date of the Bid/Contract the Contractor makes a general price reduction in the comparable price of any material covered by the Contract to customers generally, an equivalent price reduction based on similar quantities and/or considerations shall apply to any Contract for the duration of the Contract period (or until the price is further reduced). Such price reduction shall be effective at the same time and in the same manner as the reduction in the price to customers generally. For purpose of this provision, a "general price reduction" shall mean any horizontal reduction in the price of an article or service offered (1) to Contractor's customers generally, or (2) in the Contractor's price schedule for the class of customers, i.e., wholesalers, jobbers, retailers, etc., which was used as the basis for bidding on this Solicitation. An occasional sale at a lower price, or sale of distressed merchandise at a lower price, would not be considered a "general price reduction" under this provision. The Contractor shall submit his

or her invoice at such reduced prices indicating on the invoice that the reduction is pursuant to the "Price Reduction" provision of the Contract documents. The Contractor in addition will within ten (10) days of any general price reduction notify the County of such reduction by letter. FAILURE TO DO SO IS A DEFAULT UNDER THE CONTRACT AND MAY RESULT IN TERMINATION OF THE CONTRACT IN THE COUNTY'S DISCRETION. The Contractor, if requested, shall furnish, within ten (10) days after the end of the Contract period, a statement certifying either (1) that no general price reduction, as defined above, was made after the date of the Bid or Contract, or (2) if any such general price reductions were made, that as provided above, they were reported to the County within ten (10) days and the County was billed at the reduced prices. Where one or more such general price reductions were made, the statement furnished by the Contractor shall include with respect to each price reduction (1) the date when notice of any such reduction was issued, (2) the effective date of the reduction, and (3) the date when the County was notified of any such reduction.

- 63. COMPLIANCE WITH IMMIGRATION LAW:** Pursuant to Virginia Code § 2.2-4311.1, in every Contract the following provision applies: the Contractor does not, and shall not during the performance of the Contract, knowingly employ an unauthorized alien as defined in the federal Immigration Reform and Control Act of 1986.
- 64. VIRGINIA STATE CORPORATION COMMISSION:** Pursuant to Virginia Code § 2.2-4311.2, Any Bidder or Contractor organized as a stock or non-stock corporation, limited liability company, business trust, or limited partnership or registered as a registered limited liability partnership shall be authorized to transact business in the Commonwealth as a domestic or foreign business entity if so required by Title 13.1 or Title 50 of the Code of Virginia, or as otherwise required by law, at the time of the Bid, Proposal or any response to Solicitation and during the term of the Contract and any Contract renewal. The Contractor shall not allow its existence to lapse or its certificate of authority or registration to transact business in the Commonwealth, if so required, to be revoked or cancelled at any time during the term or any renewal of the Contract. If the Contractor fails to remain in compliance with the provisions of this Section 64, the Contract may become void at the option of the County.
- 65. CLAIMS PROCEDURE:**
- a. The procedure for consideration by the County of contractual claims for any Contract shall be that set forth in Virginia Code § 15.2-1243, *et seq.*
  - b. In addition, pursuant to Virginia Code § 2.2-4364, contractual claims, whether for money or other relief, shall be submitted in writing to the County Administrator no later than sixty (60) days after final payment; however, written notice of the Contractor's intention to file such claim shall have been given at the time of the occurrence or beginning of the work upon which the claim is based. Nothing herein shall preclude a Contract from requiring submission of an invoice for final payment within a certain time after completion and acceptance of the work or acceptance of the Goods. Pendency of claims shall not delay payment of amount agreed due in the final payment.
  - c. No written decision denying a claim or addressing issues related to the claim shall be considered a denial of the claim unless the written decision is signed by the Board or the County Administrator. The contractor may not institute legal action prior to receipt of the final written decision on the claim unless the County fails to render a decision within ninety (90) days of submission of the claim. Failure of the County to render a decision within ninety (90) days shall not result in the contractor being awarded the relief claimed or in any other relief or penalty. The sole remedy for the County's failure to render a decision within 90 days shall be the contractor's right to institute immediate legal action.
  - d. A Contractor may not institute legal action, prior to receipt of the County's decision on the claim, unless the County fails to render such decision within the time specified by law. A failure by the County to render a decision within the time provided by law shall be deemed a final decision denying the claim by the County.
  - e. The decision of the Board or the County Administrator shall be final and conclusive unless the Contractor appeals within six (6) months of the date of the final written decision by instituting legal action as provided in Virginia Code § 2.2-4364.
  - f. No administrative appeals procedure pursuant to Virginia Code § 2.2-4365 has been adopted for contractual claims by the County.
  - g. Nothing herein shall be construed to prevent the County from instituting legal action against any Contractor or Bidder.
- 66. NOTICES:** All written notices required or permitted under any Solicitation, Bid or Contract shall be deemed sufficient if delivered in person to the County Purchasing Agent or Bidder/Contractor, as applicable, or sent by first class mail to the County or Bidder/Contractor at the addresses set forth in the Solicitation, Bid or Contract or at such other address as a party may designate from time to time by notice given in accordance with the terms of this Section 66; except that where a Solicitation, Bid or Contract expressly requires notice to a specific individual or at a specific location, such shall control. Such notices are deemed received when actually delivered to the party or its representative or agent if hand delivered, or one (1) business day after deposited into the United States mail, if mailed.

#### DELIVERY

- 67. SHIPPING INSTRUCTIONS-CONSIGNMENT:** Unless otherwise specified in the Solicitation or Contract, as applicable, each case, crate, barrel, package, etc., delivered under the Contract must be plainly stenciled or securely tagged, stating the Contractor's name, purchase order number, and delivery address as indicated in the order. Where shipping containers are to be used, each container must be marked with the purchase order number, name of the Contractor, the name of the item, the item number, and the quantity contained therein. Deliveries must be made within the hours of 8:00 a.m. – 3:00 p.m. Deliveries at any other time will not be accepted unless specific arrangements have been previously made with the designated individual at the delivery point. No deliveries will be

accepted on Saturdays, Sundays and holidays unless previous arrangements have been made. It shall be the responsibility of the Contractor to insure compliance with these instructions for items that are drop-shipped.

- 68. RESPONSIBILITY FOR SUPPLIES TENDERED:** The Contractor shall be responsible for the materials or supplies covered by the Contract until they are delivered at the designated point. The Contractor shall additionally bear all risk on rejected materials or supplies after notice of rejection is tendered by the County. Rejected materials or supplies must be removed by and at the expense of the Contractor promptly after notification of rejection, unless public health and safety require immediate destruction or other disposal of rejected delivery. If rejected materials are not removed by the Contractor within ten (10) days after date of notification, the County may return the rejected materials or supplies to the Contractor at the Contractor's risk and expense or dispose of them as abandoned property.
- 69. INSPECTIONS:** The County reserves the right to conduct any test/inspection it may deem advisable to assure supplies and Services conform to the specification in the Solicitation, Bid or Contract, as applicable. Inspection and acceptance of materials or supplies will be made after delivery at destinations herein specified unless otherwise stated. Unless otherwise specified in the Contract, if inspection is made after delivery at the destination specified, the County will bear the expense of inspection except for the value of samples used in case of rejection. Final inspection shall be conclusive except in regard to latent defects, fraud or such gross mistakes as to amount to fraud. Final inspection and acceptance or rejection of the materials or supplies will be made as promptly as practicable, but failure to inspect and accept or reject materials or supplies shall not impose liability on the County for such materials or supplies as are not in accordance with the specifications.
- 70. COMPLIANCE:** Delivery must be made as ordered and in accordance with the Solicitation, Bid or Contract, as applicable, or as directed by the County when not in conflict with the Bid/Contract. The decision as to reasonable compliance with delivery terms shall be final. Burden of proof of delay in receipt of Goods by the purchaser shall rest with the Contractor. Any request for extension of time of delivery from that specified must be approved by the County, such extension applying only to the particular item or shipment affected. Unless otherwise specified in the Contract, should the Contractor be unreasonably delayed by the County, there shall be added to the time of completion a time equal to the period of such delay caused by the County. However, the Contractor shall not be entitled to claim damages or extra compensation for such delay or suspension. These conditions may vary for construction Contracts.
- 71. POINT OF DESTINATION:** All materials shipped to the County must be shipped F.O.B. DESTINATION unless otherwise stated specifically in the Solicitation, Bid or Contract, as applicable. The materials must be delivered to the "Ship To" address indicated on the purchase order or Solicitation, as applicable.
- 72. REPLACEMENT:** Materials or components that have been rejected by the County, in accordance with the terms of the Contract, shall be replaced by the Contractor at no cost to the County.
- 73. DAMAGES:** Any and all damages to property of the "County" that is the direct result of the Contractor, the employees of the Contractor and/or its subcontractors, agents, licensees, successors, or assigns, shall be the sole responsibility of the Contractor. The property shall be repaired to its last known condition prior to the damages and/or replaced at no cost to the County. The County shall approve any and all repairs/replacements prior to acceptance of the repairs/replacement.
- 74. PACKING SLIPS OR DELIVERY TICKETS:** All shipments shall be accompanied by Packing Slips or Delivery Tickets and shall contain the following information for each item delivered:
- a. Purchase Order Number;
  - b. Name of Article and Stock Number;
  - c. Quantity Ordered;
  - d. Quantity Shipped;
  - e. Quantity Back Ordered; and
  - f. The Name of the Contractor.

Contractors are cautioned that failure to comply with these conditions shall be considered sufficient reason for refusal to accept the Goods.

- 75. ADDITIONAL CHARGES:** No delivery charges of any kind shall be added to any invoice; except that (i) if Goods are expressly bought F.O.B. "shipping point" under the Contract and the Contractor prepays transportation, then delivery charges shall be added to invoices; and (ii) if express delivery is authorized and substituted by the County on orders for the method specified in the Contract, then the difference between freight or mail and express charges may be added to invoice.
- 76. METHOD AND CONTAINERS:** Unless otherwise specified, Goods shall be delivered in commercial packages in standard commercial containers, so constructed as to ensure acceptance by common or other carrier for safe transportation to the point of delivery. Containers become the property of the County unless otherwise specified by bidder.

**VENDOR DATA SHEET**

Note: The following information is required as part of your response to this solicitation. Failure to complete and provide this sheet may result in finding your bid nonresponsive.

1. Qualification: The vendor must have the capability and capacity in all respects to satisfy fully all of the contractual requirements.

2. Vendor's Primary Contact:

Name: \_\_\_\_\_ Phone: \_\_\_\_\_

3. Years in Business: Indicate the length of time you have been in business providing this type of good or service: \_\_\_\_\_ Years \_\_\_\_\_ Months

4. Vendor Information:

FIN or FEI Number: \_\_\_\_\_ If Company, Corporation, or Partnership  
 SSN: \_\_\_\_\_ (If Vendor is a sole proprietor)

5. Indicate below a listing of at least four (4) current or recent accounts, either commercial or governmental, that your company is servicing, has serviced, or has provided similar goods. Include the length of service and the name, address, and telephone number of the point of contact.

Company:	Contact:
Phone:	Email:
Dates of Service:	\$\$ Value:

Company:	Contact:
Phone:	Email:
Dates of Service:	\$\$ Value:

Company:	Contact:
Phone:	Email:
Dates of Service:	\$\$ Value:

Company:	Contact:
Phone:	Email:
Dates of Service:	\$\$ Value:

By my signature below, I, as a duly authorized representative of the entity named below, certify the accuracy of the foregoing information:

\_\_\_\_\_ Date: \_\_\_\_\_  
 Legal Name of Entity if Applicable

By: \_\_\_\_\_ (SEAL) Print Name: \_\_\_\_\_  
 Signature of Authorized Representative  
 Print Title: \_\_\_\_\_

**Vendor Certification (for a Sole Proprietor):**

\_\_\_\_\_ (SEAL) Print Name: \_\_\_\_\_ Date: \_\_\_\_\_  
 Signature

**PLEASE RETURN THIS PAGE WITH PROPOSAL SUBMISSION – [REQUIRED]**

**PROOF OF AUTHORITY TO TRANSACT BUSINESS IN VIRGINIA**

**THIS FORM MUST BE SUBMITTED WITH YOUR PROPOSAL/BID. FAILURE TO INCLUDE THIS FORM MAY RESULT IN REJECTION OF YOUR PROPOSAL/BID**

Pursuant to Virginia Code §2.2-4311.2, an Offeror/Bidder organized or authorized to transact business in The Commonwealth pursuant to Title 13.1 or Title 50 of the Code of Virginia shall include in its proposal/bid the identification number issued to it by the State Corporation Commission (“SCC”). Any Offeror/Bidder that is not required to be authorized to transact business in the Commonwealth as a foreign business entity under Title 13.1 or Title 50 of the Code of Virginia or as otherwise required by law shall include in its proposal/bid a statement describing why the Offeror/Bidder is not required to be so authorized. Any Offeror/Bidder described herein that fails to provide the required information shall not receive an award unless a waiver of this requirement and the administrative policies and procedures established to implement this section is granted by the County Administrator, as applicable. If this quote for goods or services is accepted by the County of Fluvanna, Virginia, the undersigned agrees that the requirements of the Code of Virginia Section 2.2-4311.2 have been met.

Please complete the following by checking the appropriate line that applies and providing the requested information. ***PLEASE NOTE: The SCC number is NOT your federal ID number or business license number.***

A. \_\_\_\_\_ Offeror/Bidder is a Virginia business entity organized and authorized to transact business in Virginia by the SCC and such vendor’s Identification Number issued to it by the SCC is \_\_\_\_\_.

B. \_\_\_\_\_ Offeror/Bidder is an out-of-state (foreign) business entity that is authorized to transact business in Virginia by the SCC and such vendor’s Identification Number issued to it by the SCC is \_\_\_\_\_.

C. \_\_\_\_\_ Offeror/Bidder does not have an Identification Number issued to it by the SCC and such vendor is not required to be authorized to transact business in Virginia by the SCC for the following reason(s):

**Please attach additional sheets if you need to explain why such Offeror/Bidder is not required to be authorized to transact business in Virginia.**

Legal Name of Company (as listed on W-9): \_\_\_\_\_

Legal Name of Offeror/Bidder: \_\_\_\_\_

Date: \_\_\_\_\_

Authorized Signature: \_\_\_\_\_

Print or Type Name and Title: \_\_\_\_\_

**PLEASE RETURN THIS PAGE WITH PROPOSAL SUBMISSION – [REQUIRED]**

**CERTIFICATE OF NO COLLUSION:**

The undersigned, acting on behalf of \_\_\_\_\_, does hereby certify in connection with the procurement and proposal to which this Certificate of No Collusion is attached that:

This proposal is not the result of, or affected by, any act of collusion with another person engaged in the same line of business or commerce; nor is this proposal the result of, or affected by, any act of fraud punishable under Article 1.1 of Chapter 12 of Title 18.1 of the Code of Virginia, 1950, as amended (18.2-498.1 et seq.).

The undersigned declares that the person or persons signing this proposal is/are fully authorized to sign the proposal on behalf of the firm listed and to fully bind the firm listed to all conditions and provisions thereof.

Respectfully submitted this \_\_\_\_\_ day of \_\_\_\_\_, 2015.

\_\_\_\_\_  
Legal Name of Entity

By: \_\_\_\_\_ (SEAL)  
Signature of Authorized Representative

Print Name: \_\_\_\_\_

Print Title: \_\_\_\_\_

Date: \_\_\_\_\_

**ACKNOWLEDGEMENT**

State of \_\_\_\_\_

In the County/City of \_\_\_\_\_, to-wit:

The foregoing Certification of No Collusion was subscriber and sworn to before me by \_\_\_\_\_ (Print Name), \_\_\_\_\_ (Print Title) on behalf of \_\_\_\_\_ (Print Name of Entity) on this \_\_\_\_\_ day of \_\_\_\_\_ (month), \_\_\_\_\_ (year).

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

Registration Number: \_\_\_\_\_  
\_\_\_\_\_

**PLEASE RETURN THIS PAGE WITH PROPOSAL SUBMISSION – [REQUIRED]**

**OFFEROR STATEMENT**

The undersigned Offeror hereby certifies that the Offeror has carefully examined all instructions, plans, conditions, specifications and other documents or items of this Request for Proposal and hereby submits this Proposal pursuant to such instructions, plans, conditions, specifications and other documents or items.

**Complete if Offeror is an Entity:**

WITNESS the following duly authorized signature and seal:

Name of Entity: \_\_\_\_\_  
By: \_\_\_\_\_ (SEAL)  
Signature  
Print Name: \_\_\_\_\_  
Print Title: \_\_\_\_\_

STATE OF \_\_\_\_\_  
COUNTY/CITY OF \_\_\_\_\_, to-wit:

The foregoing instrument was acknowledged before me this \_\_\_\_ day of \_\_\_\_\_ (month), \_\_\_\_\_ (year) by \_\_\_\_\_ (Print Name), \_\_\_\_\_ (Print Title) on behalf of \_\_\_\_\_ (Name of Entity).

\_\_\_\_\_  
Notary Public [SEAL]

My commission expires: \_\_\_\_\_  
Notary registration number: \_\_\_\_\_

**Complete if Offeror is a Sole Proprietor:**

Witness the following signature and seal:

\_\_\_\_\_ (SEAL)  
Signature  
Print Name: \_\_\_\_\_

STATE OF \_\_\_\_\_  
COUNTY/CITY OF \_\_\_\_\_, to-wit:

The foregoing instrument was acknowledged before me this \_\_\_\_ day of \_\_\_\_\_ (month), \_\_\_\_\_ (year) by \_\_\_\_\_ (Print Name), a sole proprietor.

\_\_\_\_\_  
Notary Public [SEAL]

My commission expires: \_\_\_\_\_  
Notary registration number: \_\_\_\_\_

**PLEASE RETURN THIS PAGE WITH PROPOSAL SUBMISSION – [REQUIRED]**

Preliminary Engineering Report for  
**Water and Wastewater Services to  
Zion Crossroads Planning Area**  
March 2015

*Submitted to:*



**Fluvanna County**

197 Main Street  
Post Office Box 540  
Palmyra, VA 22963

*Submitted by:*



**Rummel, Klepper & Kahl, LLP**

2100 E. Cary Street  
Suite 309  
Richmond, VA 23223  
(804) 782.1903



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- Appendix A – Agreements and Permits
- Appendix B – Previous Studies (Key Sections)
- Appendix C – Outputs and Results



## 1.0 INTRODUCTION

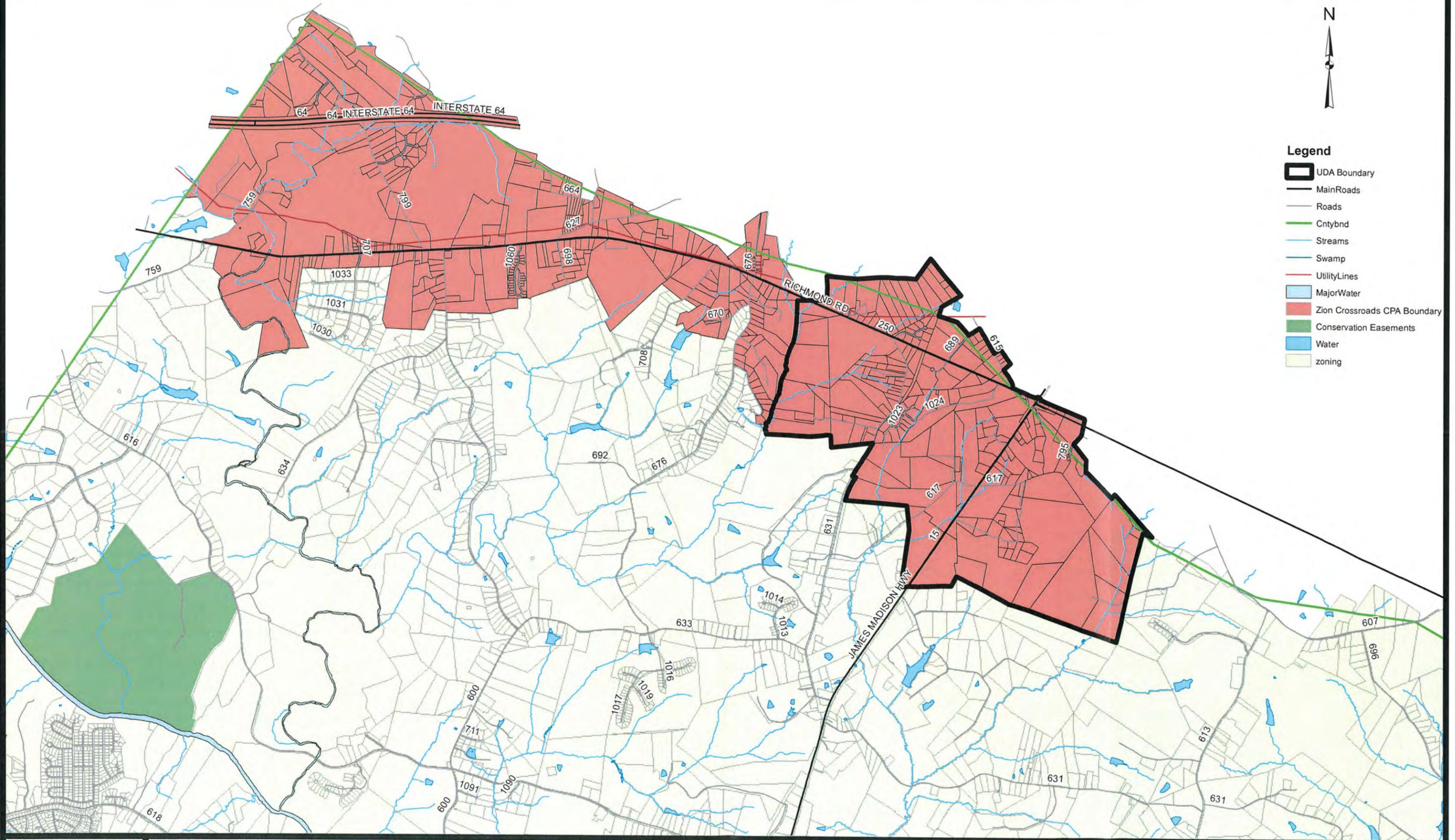
The purpose of this Preliminary Engineering Report (PER) is to present the technical options for providing water and wastewater capacity and infrastructure to the present Zion Crossroads Community Planning Area (CPA). This area represents approximately 4,700 acres based on the most recent planning area boundaries as shown in Figure 1.

This PER includes the necessary background, mapping, figures, preliminary engineering, and cost estimates for the County to be able to review short and long term options for logically moving forward with development of this area. The recommendations present a phased approach to spread capital infrastructure costs out while revenue begins to grow.

### 1.1 Scope of Work

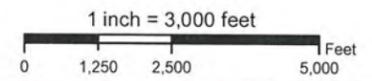
Below is a brief description of each primary task included in this Report:

- **Background** – review all related internal and external studies and reports relevant to this PER along with proposals and draft agreements related to water and wastewater capacity. This information will be the basis for several of the options discussed in this Study.
- **Demand Projections** - evaluate all parcels for development potential based on wetlands, building setback requirements, and other constraints in order to provide a realistic idea of how these parcels may be served. We will provide a preliminary development map to the County. Based on this map and County feedback, we will estimate the water and sewer demands for the Service Area for the next 20 years and at full build-out. These demands will be used to determine source capacity and discharge needs along with water and wastewater infrastructure sizing.
- **Water Source Options** – evaluate the potential for ground water and surface water sources that may serve the area. Ground water sources will include existing wells, new wells, and wells through the neighboring Louisa County Water Authority (LCWA). Surface water sources will include Mechunk Creek (through Virginia DOC Women’s Facility) and the James River (through the JRWA intake project). There will be two options related to the James River source, one to provide treatment directly by Fluvanna County and one to provide treatment from neighboring Louisa County (through LCWA). The evaluation of these options will be based primarily on existing information and studies as discussed in Item 1.
- **Wastewater Treatment Options** – for direct discharge to Virginia water bodies, evaluate the potential to discharge to the Department of Corrections wastewater treatment plant (WWTP) and the LCWA wastewater treatment plant located near Zion Crossroads. For comparison purposes, discuss the potential for providing a new WWTP to serve the area. We will also briefly discuss



- Legend**
- UDA Boundary
  - Main Roads
  - Roads
  - Cntybd
  - Streams
  - Swamp
  - Utility Lines
  - Major Water
  - Zion Crossroads CPA Boundary
  - Conservation Easements
  - Water
  - zoning

**Figure 1 - Zion Crossroads CPA**



**COUNTY OF FLUVANNA  
PER FOR WATER/WASTE WATER SERVICES**

Zion Crossroads Planning Area  
January 2015





alternative wastewater treatment and disposal options and the potential for how water reuse opportunities could address some of the capacity needs. The evaluation of these options will be based primarily on existing information and studies as discussed in Item 1.

- **Water Distribution System Options** – evaluate water system infrastructure options for connecting to the DOC water system, connecting to the LCWA water system near Route 15, and connecting to existing or new wells identified in the CPA. The infrastructure components will include water mains, booster station(s), water storage tank(s), and possibly well facilities. A preliminary water model will be developed to assist with infrastructure sizing, determine available fire flow and pressures, and assess where water quality issues may be prevalent.
- **Wastewater System Options** – evaluate wastewater system infrastructure options for connecting to the DOC wastewater system and connecting to the LCWA wastewater system. The infrastructure components will include gravity sewer, force mains and pump stations.
- **Recommendations** – provide technical recommendations for the County to procure water source capacity and wastewater discharge options. Present infrastructure recommendations with an emphasis of phasing these components so they can be used as part of a long term system.

## 1.2 Background

Adjacent to Fluvanna County at the intersection of Route 15 and Interstate 64 is Louisa County and their portion of the Zion Crossroads area. Louisa County has had a public water and wastewater system for over 10 years and has experienced steady growth including commercial, light industrial, retail and residential development. As of 2014, the Louisa County Water Authority is providing approximately 140,000 gallons per day of water and approximately 125,000 gallons per day of wastewater treatment to this area.

On the Fluvanna County side of the Zion Crossroads area, recent development of light industrial and commercial warehouse space has occurred. These developments are served by private wells and sanitary drain fields (or on-site treatment systems) and provide service for limited employee usage. There is existing residential throughout the area typically on larger lots (>2 acres). Without a central public water and wastewater system, the Fluvanna area will continue to be limited to similar developments.

As indicated in the Thomas Jefferson Planning District Commission (TJPDC) Zion Crossroads Guidebook, dated August 2013, the County desires to develop the Zion Crossroads area with a mixed use concept, which is the basis for the water and wastewater demand projections along with the recommended infrastructure for this report.



### 1.3 Information Utilized

Many studies have been conducted in past years related to providing water and wastewater services to the Zion Crossroads Planning area of Fluvanna County. There are also several proposed or formal agreements related to this study that serve as options that were considered. The main studies and agreements reviewed and utilized for this PER are listed below:

1. Zion Crossroads Guidebook, August 2013. Prepared by TJPDC in cooperation with Fluvanna County.
2. PER for the James River Water System, August 2009. Prepared by Timmons Group for Fluvanna County and Louisa County.
3. Fluvanna County Regional Water Supply Plan, April 2010. Prepared by Draper Aden Associates for Fluvanna County and Town of Columbia.
4. Zion Crossroads Service Area Master Plan, August 2004. Prepared by Dewberry for Louisa County Water Authority.
5. Louisa County Water Supply Plan, June 2011. Prepared by Gannett Fleming and Dewberry for Louisa County.
6. DOC and Fluvanna Memo Agreements dated October 2013 for Water and Wastewater Capacity.
7. James River Water Authority Agreement, October, 2013. For Fluvanna and Louisa County long term water supply from James River.

**Key excerpts from these Reports and Agreements are provided in Appendices A and B.**



## **2.0 WATER AND WASTEWATER DEMAND PROJECTIONS**

As mentioned in Section 1.2, the basis for the demand projections was the Zion Crossroads Guidebook (August, 2013) and the current CPA of approximately 4,700 acres. The primary method utilized to project the potential demands is based on calculating the amount of developable acreage multiplied by a flow factor/acre of the various types of anticipated land. The methodology for projecting the demands along with a discussion as to when these demands may occur is presented in this section.

### **2.1 Service Areas**

The current CPA was divided into 4 Areas in order to be able to better describe where specific demands may occur along with how to plan for infrastructure layout in a systematic approach. Service Area 1 is considered to be the initial target area of the Service Area and includes subareas 1A through 1D. The other areas (including subareas) 2 through 4 are not meant to be subsequent phases of development, and are arbitrarily numbered for identification purposes only. These service areas are all shown in Figure 2.

### **2.2 Developable Area**

The developable area is considered to be the available acreage less existing land features restricting development including existing right-of-ways, streams and lakes, wetlands, wetland buffers, and steep slopes. These areas, considered undevelopable, are shown in green on Figure 3. Existing residential and commercial developments within the service areas are considered in the demand projections, but only at current demands (which are significantly reduced compared to potential development at maximum density). The DOC property is not included in the demand projections.

### **2.3 Proposed Land Use Maps**

As mentioned previously, the Zion Crossroads Guidebook was developed by the TJPDC in cooperation with Fluvanna County and included land use types primarily for an urban mixed use concept. The proposed land use types include Office Warehouse/Tech Park, Office/Office Source, Commercial Retail, Village Mixed Use, Multi-Family and Residential. The assumed land uses in each service area are shown in Figures 4 and 5. The proposed unit flows per acre for each usage type are shown in Table 2-1:

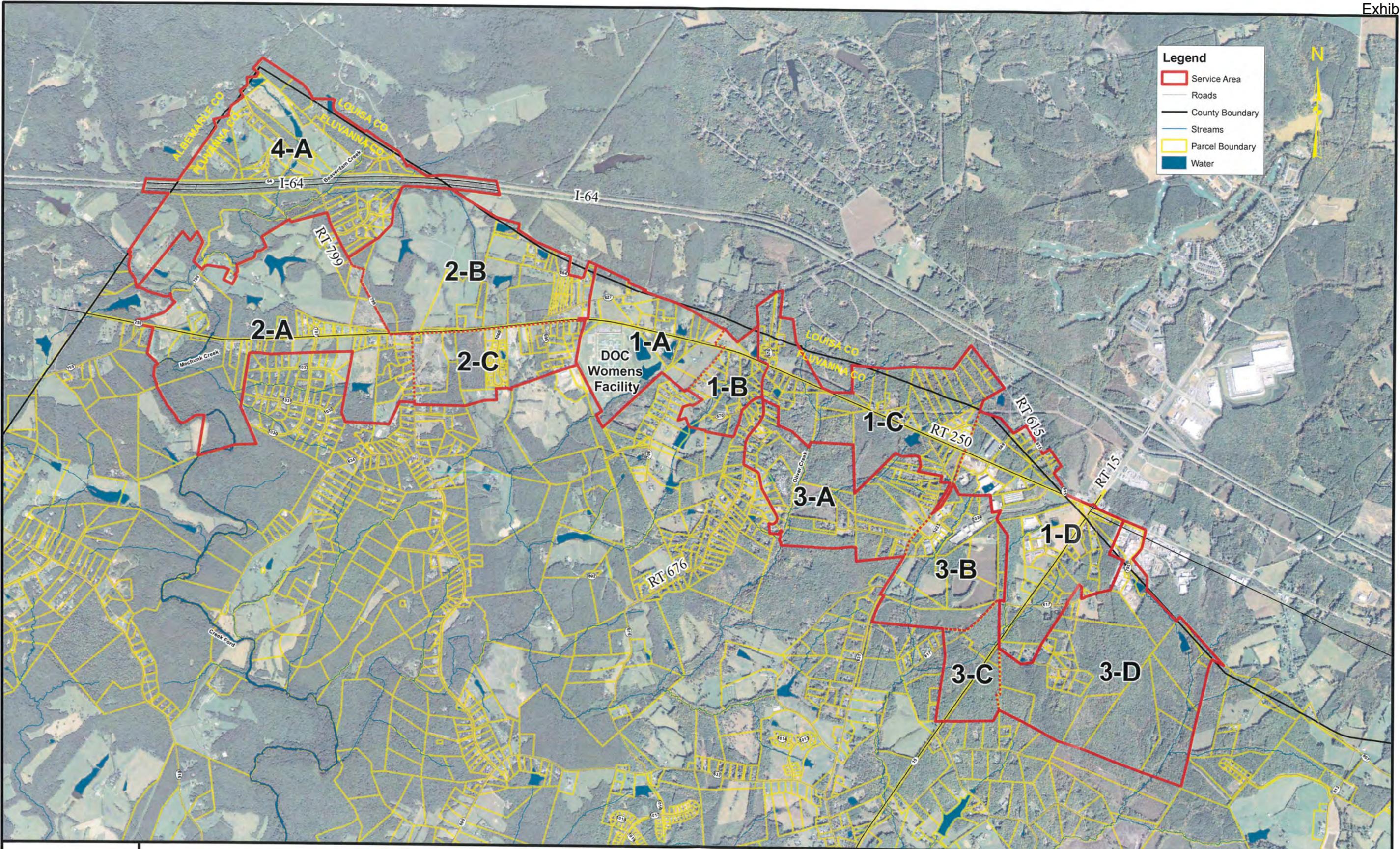
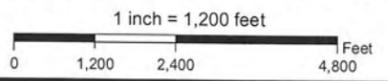


Figure 2 - Service Area Overview



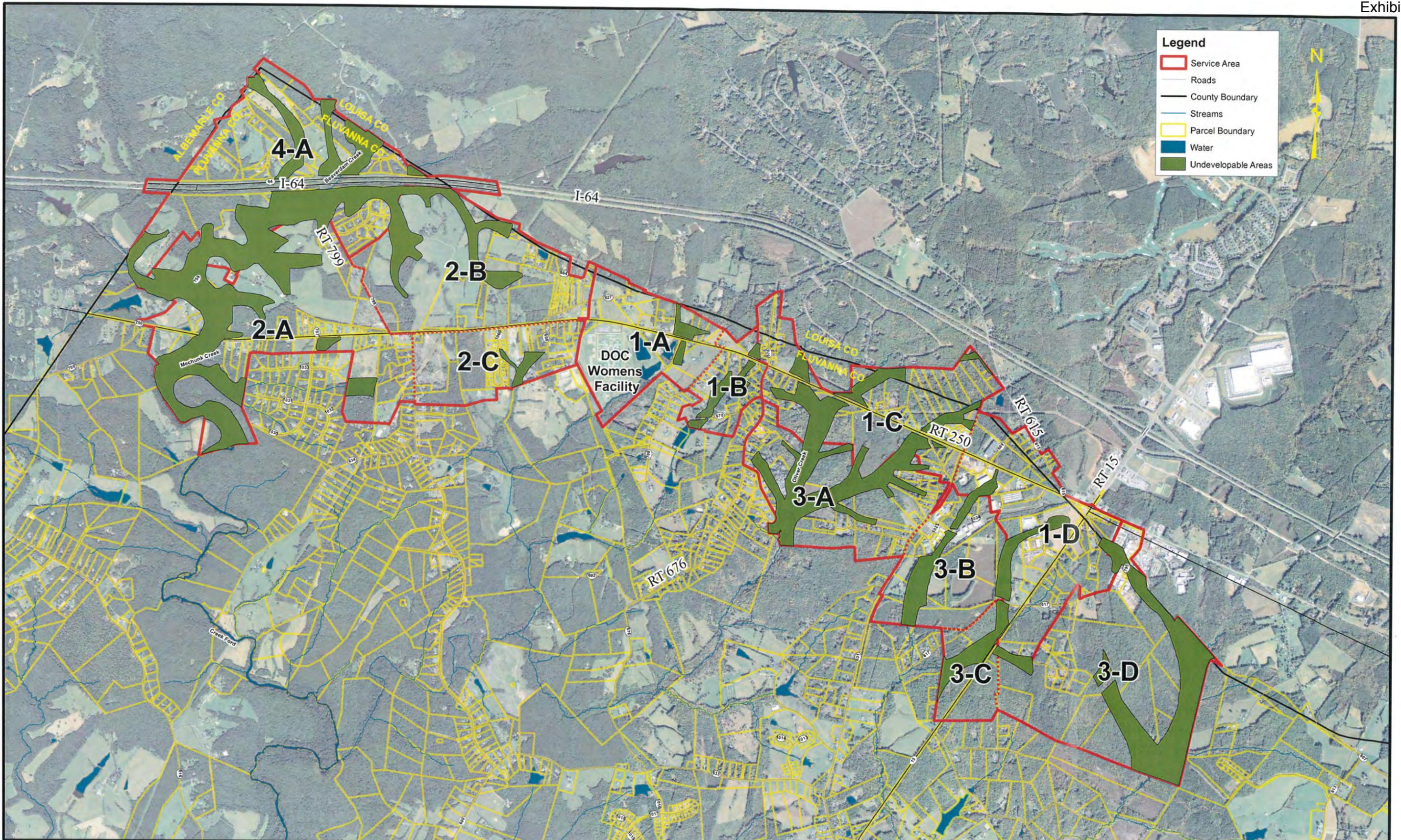
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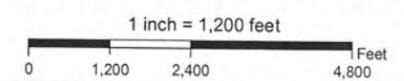
**Figure 3 - Service Area Undevelopable Areas**

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**Figure 4 - Potential Land Use Eastern Service Area**



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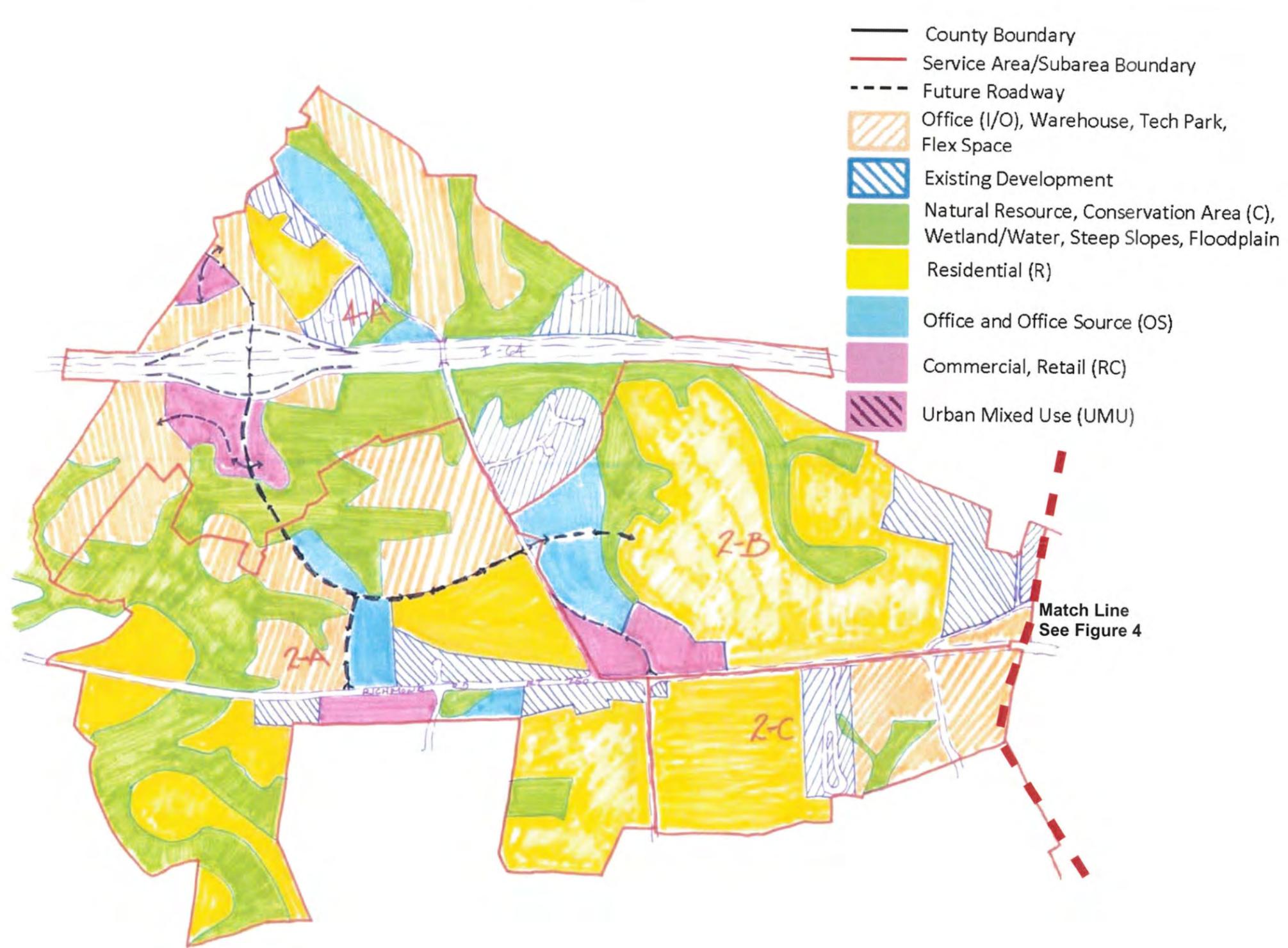


Figure 5 - Potential Land Use - Western Service Area



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Land Use (acres)	Unit Flow (gal/day/acre)
Existing Development	100
Residential, R-1	500
Residential, R-2	800
Office, Warehouse, Tech Park, Flex Space, (I/O1)	800
Office, Warehouse Tech Park, Flex Space, (I/O2)	1,200
Commercial, Retail (RC)	1,000
Residential, Mixed Use (MU1)	1,500
Residential, Mixed Use (MU2)	2,000

**Table 2-1 – Proposed Unit Flows**

#### **2.4 Water and Sewer Demand Projections**

The water and sewer demands for these parcels were based on the County standards for these zoning types. The flow density demands range from 500 gallons per day/acre to 2,000 gallon per day/acre. Considering conservation measures and most flows will be for employee use, the selected values reflect the lower end of values traditionally used. Should the County desire a higher use industry, the flow estimates should be revisited or the potential for utilizing reuse/recycled water should be explored.

Using the factors discussed in this section, the water and sewer demands were calculated for all 4 service areas for 100 percent of property build-out and 50 percent of property build-out. Table 2-2 shows the total flow of all basins along with individual flow demands for all sub-basins.

Service Area	Build Out Flow (Gals/Day)	50% Build Out Flow (Gals/Day)	Upper Build Out Flow (Gals/Day)	50% Build Out Flow (Gals/Day) - Upper
1	571,023	285,512	773,831	386,915
2	606,501	303,250	880,690	440,345
3	517,420	258,710	774,656	387,328
4	227,667	113,834	306,256	153,128
<b>Total</b>	<b>1,922,611</b>	<b>961,306</b>	<b>2,735,433</b>	<b>1,367,717</b>

**Table 2-2 – Summary of Water and Wastewater Demands**

The shaded values in Table 2-2 for 50 percent build-out were used to determine existing water and wastewater infrastructure size because this is a reasonable design point for a brand new system. It is unlikely that the 50 percent design flow will be achieved in the next 20 years. As growth occurs, it is reasonable to expect redundant or new infrastructure will be installed in the service areas that allow for the 100 percent build-out to occur.



It is important to note that for this Report it has been assumed that water demand projections will equal wastewater demand projections. In reality, especially as a new system is in its early stages (less than 25% build-out), it is not uncommon for wastewater demands to be 10 to 15 percent less than water demands. This is because water systems require periodic flushing to maintain water quality. There are also other uses, such as irrigation and evaporation from cooling towers, that do not require a sewer discharge.

One factor that could decrease some of the water demand would be if industries and commercial businesses utilize gray water or reuse water (from wastewater treatment) in lieu of potable water. However, this is difficult to predict for a new system.

As the long term water source and wastewater treatment options continue to develop, each of the specific demand categories should be independently evaluated to account for some of the above factors mentioned.

For economic development purposes, upper level demand projections are also provided. These projections were accomplished by increasing unit flow densities for the Residential (R-2), Office/Tech Park (I/O2), and Mixed Use categories (MU-2). The flow demands for this scenario are also shown in Table 2-2. These demands can be used as a guide to increase long term source capacity and wastewater treatment needs should more flexibility be desired for the Zion Service Area.

The detailed flow demands are included in Appendix C.

## 2.5 Predicting When Demands Will Occur

As indicated in Section 2.2, it is estimated that between 1.9 MGD and 2.7 MGD of water and wastewater demand may be required at complete build-out of the Zion Crossroads Service Area. As to when this will occur is dependent on a variety of considerations including economic, political, and regional factors.

Several past studies including the 2010 Regional Water Supply Plan and the 2009 James River Water System PER present a population based growth model for estimating when demand projection flows may occur. As the title implies, this method involves tying population growth in a certain area to how that area will develop. This method does not always work well for a CPA such as the Zion Crossroads Area since commercial, industrial and retail uses may be less dependent on population growth within the immediate area. However, this method does have some merit for planning purposes. The 2009 JRWS study predicts an initial service area flow of 34,000 gallons per day (2015), a flow demand of 137,000 gallons per day at year 2025, and a flow demand of 360,000 gallons per day at year 2040.

It is likely that complete build-out will not occur for at least 50 years and even the 50% build-out projections may take at least 25 to 30 years. However, some of the Service Area zones could achieve higher percentages of growth compared to the others depending on development size. Depending on location, a few large developments occurring on adjacent parcels could significantly change the development potential for the entire area. For this reason, it is still very important to plan for some of the larger demands in terms of infrastructure, source water, and wastewater treatment potential.



### 3.0 WATER SOURCE OPTIONS

Several surface water and ground water options were evaluated for the potential to serve the area. Ground water sources include existing wells, new wells, and wells through the neighboring Louisa County Water Authority (LCWA). Surface water sources include the Department of Corrections (from Mechunk Creek) and the James River (through the JRWA intake project). There will be two options related to the James River source, one to provide treatment directly by Fluvanna County and one to provide treatment by neighboring LCWA. Other options discussed are connection to the Lake Monticello system and the eastern Albemarle County system. Figure 6 is presented to show the long term water source options that are included in this section.

#### 3.1 Groundwater

##### 3.1.1 Existing Wells

From the available information in the 2010 Water Supply Plan, there are no known wells in excess of 30 gallons per minute in the Zion Crossroads service area. For informational purposes, a 30 gpm well translates into a 24,000 gal/day production well based on Virginia Department of Health regulations. **Utilizing existing wells in the Zion Crossroads area does not appear to be a viable water source option for this system.**

##### 3.1.2 New Wells

Although this area of the County is known for low yielding wells, many of them may not have been drilled deep enough to reach their full yield potential. There are some old wells on Department of Corrections property that experienced some yield, albeit they were relatively shallow and not very productive. This does not necessarily mean that a larger quantity of water does not exist on DOC property at greater depths. Fluvanna County has hired Draper Aden Associates to identify prime locations for potential wells. Once this field testing is conducted, if some significant yield is encountered, potentially this could be used to increase the safe yield of the existing on site water impoundment. The VDH indicated there is not an issue with pumping groundwater into a surface water impoundment and believe the existing DOC water treatment plant would most likely perform very well. **Should this potential be realized, it could help increase the yield of the DOC Water Plant and in turn postpone the need for a long term alternative.**

##### 3.1.3 LCWA Wells

The Louisa County Water Authority drilled and tested 6 wells near the Spring Creek development collectively offering over 800 gallons per minute of yield. In addition to the high yielding wells, the wells offer good water quality and requiring minor chemical treatment (for disinfection and corrosion protection). Unfortunately, the residents that live near these wells have taken issue with the pumping of these wells and it has been very expensive from a legal standpoint to address increasing public issues. Therefore, if Fluvanna County were to request additional supply from these wells through the LCWA, it





is likely cost prohibitive and politically challenging to utilize this supply. Additionally, the LCWA is presently proceeding with the James River Water project which may impact their use of these wells in the future. **It does not appear that the LCWA wells will be a good water source option for Fluvanna County.**

### 3.2 Surface Water

#### 3.2.1 DOC Water Treatment Plant

The Fluvanna Correctional Center for Women waterworks consists of a raw water intake and pump station on Mechunk Creek, a 40 million gallon raw water storage impoundment, a pre-oxidation chemical feed system, a flocculator, clarifiers, dual rate gravity sand filters, chlorine disinfection and corrosion control treatment. The design capacity of the facility is 250,000 gallons per day, of which approximately 150,000 gallons per day is utilized by the DOC campus. The infrastructure and treatment facility are less than 20 years old and are in good condition. The VDH and DOC operations staff has mentioned that the treated water quality has been good and reliable. This treatment plant does have the capabilities to treat up to 400,000 gallons per day, provided that the source water supply can be increased. At present, because Mechunk Creek experiences low flows during dry conditions, the VDH cannot increase the yield of this plant. However, if a supplemental water source, such as ground water wells, can be located and pumped to the existing impoundment, it is possible to increase the treatment capacity. The VDH Engineering Description Sheet and Mechunk Creek withdrawal permit are included in Appendix A.

In October, 2013, Fluvanna County and DOC entered into a Memorandum of Agreement for the DOC to provide up to 75,000 gallons per day of treated water to the County. The cost of the water will initially be \$1.50 per thousand gallons of metered water. The infrastructure to pump from the DOC system along with any piping, etc. will need to be the responsibility of the County. **Since the facility is already within the proposed Service Area, this appears to be a very cost effective option for the County to provide an initial water source to the Service Area.**

In comparison to current LCWA water rates, the cost to business and industry is \$5.50 per thousand gallons. This does not include any capital improvement cost or connection fee costs.

#### 3.2.2 Albemarle County – Rivanna Village area

The nearest public water supply system in Albemarle County to the Zion Crossroads service area is near the area of Glenmoore. This system receives their water from surface water sources and treatment facilities. The approximate distance from the County line to the existing system is 3.5 miles. The cost for a 3.5 mile water main along with the maintenance of the main to keep the water fresh would be significant. However, as the service area grows westward, it may be beneficial to consider requesting a connection to Albemarle County. **This could serve as a supplemental long term supply as well as an emergency water source, should the primary County source have periodic issues with quality or quantity.**



### 3.2.3 *Lake Monticello/Aqua Water System*

The Lake Monticello waterworks, owned and operated by Aqua Virginia, Inc., consists of a conventional, high rate surface water treatment plant with a design capacity of 1.4 MGD. Raw water is pumped from an intake structure located in the Rivanna River. The safe yield at this intake location is 10 MGD, but the permit is limited to a maximum daily withdrawal rate of 2.6 MGD. For this reason, there is some available treatment capacity at this facility.

In May, 2012, Aqua Virginia submitted a Design/Build proposal to Fluvanna County to provide water to the Zion Crossroads service area. The scope of this project was to construct an 8.5 mile potable distribution main, include the necessary pumping facility and storage capacity, along with operation of the system. The capacity of water to be supplied with this proposal was up to 500,000 gallons per day.

The total project cost for this proposal was approximately \$9.0 Million. This was to be financed into 20 annual payments of \$950,000. This cost would include up to 127,000 gallons per day of water. For any usage beyond 127,000 GPD, the cost would be \$2.95/thousand gallons. There are other items included in the cost of this proposal such as easement acquisition and permitting costs.

**Although it is difficult to do a direct comparison of this proposal to the DOC agreement, it is very evident that the Aqua proposal would have been much more costly to Fluvanna County.** One of the reasons is probably the long distance of the transmission main along with the pumping cost.

A copy of the Aqua proposal is included in Appendix A.

### 3.2.4 *James River and JRWA*

The James River Water Authority (JRWA) was created by action of both Boards of Supervisors of Louisa and Fluvanna Counties in 2009. The purpose of the joint authority is to provide treated water to both Counties in order to meet their long term needs. The James River Withdrawal Permit (see Appendix A) allows for a maximum daily withdrawal of 5.7 million gallons.

The JRWA has entered into a PPEA Design Build contract to construct a new river intake structure, pumping station, and a portion of the raw water line. It is our understanding that the JRWA and the Louisa County Water Authority are working on a second PPEA Design Build contract that will install the remainder of the raw water main to Louisa, construct a new Water Treatment Plant (near Ferncliff), and a potable transmission main that will feed back to their Zion Crossroads system (see Figure 6).

**This phase of the project will offer a very good long term solution for Fluvanna County to purchase additional water to meet the demand projections for the Zion Crossroads Service Area.** According to the agreement with Louisa County, the cost for water between the 2 entities is to be based primarily on actual costs so this should give Fluvanna a viable long term option.



### *3.2.5 New Fluvanna County Water Treatment Plant*

According to the JRWA Agreement, Fluvanna County also has the right to construct its own raw water line once it is pumped out of the James River. The 2009 PER for the James River System recommended the Pleasant Grove site in Palmyra as a good option for a County Water Treatment Plant. The PER indicated that a new 3 MGD treatment plant at this site along with other infrastructure improvements would be in the range of \$45 Million. Additionally, the raw water line to go from the Intake line to Palmyra is approximately 11 Miles, so this cost would need to be taken into account.

The details of this option are included in more detail in Appendix B.

### *3.2.6 New Impoundment – Pleasant Grove Site*

The 2009 PER for the James River System also evaluated the benefit of a possible impoundment in Fluvanna County in order to assist with storage and pretreatment of the James River source. The recommended site was Site R-5, located on the Pleasant Grove Site, and adjacent to the new High School. Should the County desire to consider a future Water Treatment Plant at this location, the impoundment may want to be studied further. It could also be a source of recreation for County residents.

Information regarding the impoundment site is included in Appendix B and is also shown on Figure 6.



#### 4.0 WASTEWATER TREATMENT OPTIONS

The options evaluated include direct discharge to Virginia water bodies, the potential to discharge to the Department of Corrections wastewater treatment plant (WWTP) and the LCWA wastewater treatment plant located near Zion Crossroads. A discussion of other options including a regional facility in Palmyra is also discussed. Figure 7 is presented to show the long term wastewater options that are included in this section.

#### 4.1 **DOC Wastewater Treatment Plant**

Fluvanna County currently has an Agreement with the DOC to treat up to 100,000 gallons per day of wastewater. Additionally, the DOC has implied that an additional 25,000 gallons per day is available upon request. The current DOC wastewater treatment facility was constructed in the mid 1990's and features a proven technology utilizing Sequential Batch Reactors (SBRs) as its primary treatment scheme. These type of facilities have significant storage capacity to address peak capacities so the design capacity of 300,000 gallons per day (150,000 gpd each) should not be too difficult to achieve. Upon a brief visit to the WWTP, the facility is well kept and operators noted minimal compliance issues. The cost per thousand gallons (per agreement) is \$1.50/thousand gallons, which is a very good cost compared to average and surrounding County rates. One item that will need to be addressed by DOC is they will need to increase from an 8 hour shift to a 16 hours shift as influent flows increase. Finding qualified operators has proven challenging, suggesting additional personnel may be a cost impact to Fluvanna County. **However, this is a very good option for initial wastewater treatment (up to 125,000 GPD) for the Zion Crossroads service area and this opportunity should be strongly considered.**

There does appear to be space to add additional SBRs and other equipment so it may be possible to add some capacity at this location. However, permitting and compliance requirements to increase capacity beyond 500,000 gallons per day (additional 200,000 GPD of capacity) will likely prove challenging because it discharges into a relatively small stream. The problem with small stream discharges is that the permits can have very low limits for toxic components such as heavy metals (copper, zinc) and ammonia resulting in a long term compliance issue.

#### 4.2 **Spring Creek WWTP (Louisa County)**

The LCWA owns and operates a relatively new wastewater treatment facility just north of the Zion Crossroads interchange in a large planned development called Spring Creek. It was permitted and constructed to occur in 3 stages of capacity (0.1 MGD, 0.70 MGD, 1.5 MGD), as the service area continues to grow. The current flow to the facility is approximately 130,000 gallons per day. It is our understanding that the plant has been upgraded to Stage 2 for design capacity (0.70 MGD), but is only permitted to 300,000 gallons per day. After flow exceeds 311,000 gpd, the requirements for nitrogen and phosphorus removal will increase, which will require additional operational and monitoring expenses.

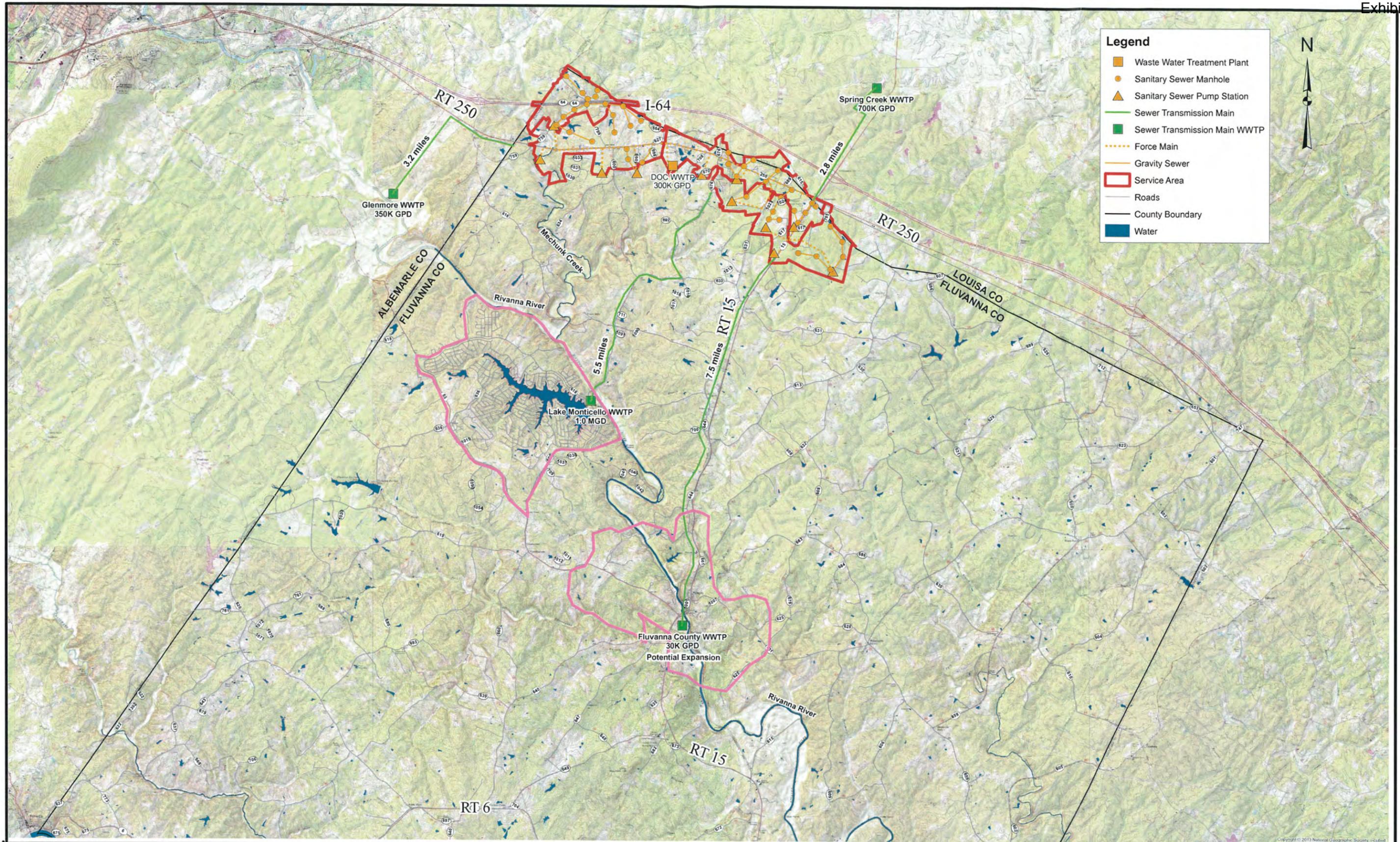
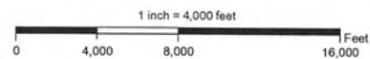


Figure 7 - Long Term Wastewater Options



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Another item that will need to be considered is that Fluvanna County would most likely need to install a pump station and force main from the Route 250/15 intersection to a distance of approximately 2.8 miles in order to access a portion of the 18 inch trunk sewer. Unfortunately, it does not appear that the gravity sewer closest to Fluvanna County will accommodate any additional flow (due to size limitations).

The LCWA is also in the process of relocating the current outfall from a small creek to the South Anna River, which will allow for permit compliance with other compounds that have been a problem in the past.

Although there are some significant cost implications for the above items, it is possible that this is still a less costly option than developing a new County facility, or at least delays the need for a new Facility for another 10 to 20 years. The current LCWA sewer rates are \$8.29 per thousand gallons for business and industry. These rates will probably increase as the WWTP expands. This cost does not include any capital improvement cost or connection fee costs.

Some additional information on the current and proposed sewer infrastructure for the Zion Service Area (in Louisa) is provided in Appendix B.

#### 4.3 Albemarle – Eastern WWTP

As shown on Figure 7, there is an existing wastewater treatment facility that serves the Glenmore development and the Rapidan village area. This facility is permitted for 350,000 gallons per day and was designed primarily to serve this community. **The distance from the Fluvanna County line to the facility is approximately 3.2 miles, so it is unlikely that this distance combined with the lower available capacity (if any) would be a cost effective option for Fluvanna County.** However, the County may still desire to investigate this possibility further by scheduling a meeting with the Rivanna Water and Sewer Authority.

#### 4.4 New Fluvanna WWTP

The County presently owns and operates a 30,000 gallon per day wastewater treatment plant that discharges to the Rivanna River. While this plant would not serve as a regional facility in its current state, the discharge location is very desirable when considering the location for a larger facility that could treat the larger demands that are projected from the Zion Crossroads Service Area. A regional facility could also serve the Lake Monticello community, surrounding Palmyra, and the Fork Union area.

As mentioned for the other options in this study, once the DOC Facility option is no longer viable due to increasing demands, there are no other inexpensive options. It therefore makes sense to consider a regional Facility at some point in time.

A new regional facility will require a very high level of treatment. However, that is required for most new facilities to meet current standards to discharge to the Chesapeake Bay and its tributaries, so this is to be expected. The more difficult challenge is in meeting the nutrient requirements for nitrogen and



phosphorus. It will probably take a combined approach of nutrient exchange, creation of alternate nutrient reductions (discussed in Section 4.7), alternative sewer disposal, and water reuse.

#### 4.5 Alternative Sewer Treatment Options

Since discharging large flows to a stream or river will continue to have stringent permitting requirements, alternative treatment systems should be considered to manage a portion of the service area flow. Alternative treatment systems typically still require a reasonable level of treatment, but in lieu of discharging to a stream or river, they discharge to the subsurface such as a drainfield, drip irrigation system, or injection type system. **It is recommended that the County conduct an evaluation to determine the feasibility of utilizing alternative wastewater treatment and disposal systems (in the next couple of years).**

#### 4.6 Water Reuse

Several years ago, Virginia adopted Water Reuse regulations which allow treated wastewater to be utilized for beneficial use purposes in lieu of discharging to a State water body. Water reuse has a potential to reduce the amount of direct discharge of treated wastewater that will go directly to a surface water source. It also has the benefit of reducing the total amount of nutrients (nitrogen and phosphorus) that will need to be discharged.

There are many Water Reuse systems that have been constructed and are now in operation in Virginia with a variety of beneficial applications. The Reuse Regulations have two (2) levels of treatment that must be met depending on use and risk to the user/environment. Type 1 requires a more stringent level of treatment and monitoring and Type 2 is slightly less stringent. Examples of the types of applications are presented below:

##### Type 1

- Residential Lawn Watering
- Toilet Flushing (Non-res)
- Fire Fighting / Protection (Non-res)
- Commercial Car Wash
- Commercial Air Conditioning Systems
- Irrigation of Food Crops (Consumed Raw)
- Landscape Impoundments
- Commercial Laundries

##### Type 2

- Irrigation of Food Crops (Commercially Processed)
- Irrigation of Non-food Crops
- Landscape Impoundments
- Construction (Compaction / Dust Control / Concrete)
- Livestock Watering
- Data Center Non-Contact Cooling
- Street Washing
- Cooling Towers

**It is recommended that Fluvanna County evaluate the potential for water reuse in the proposed service area, possibly with the next Comprehensive Plan update.**



#### 4.7 Alternate TMDL options

As wastewater flows increase to the Service Area and less nutrient credits are available to meet annual nitrogen and phosphorus TMDL (Total Maximum Daily Loadings) requirements, it will be important to find alternative, long term solutions. Some alternate TMDL options will involve evaluating existing and prospective County owned property for alternate methods of controlling these nutrients from entering the Chesapeake Bay watershed. These alternative methods may be through stormwater management, agricultural management, or silvicultural (forests) management. **It is recommended that Fluvanna County evaluate these alternate TMDL options in conjunction with further evaluation of the long term wastewater treatment options.**



## 5.0 WATER DISTRIBUTION SYSTEM

This section presents an evaluation for water system infrastructure options for connecting to the DOC water system with an option of connecting to the LCWA water system near Route 15. The infrastructure components will include water mains, booster station(s), and a water storage tank. A preliminary water model was developed to assist with infrastructure sizing, determine available fire flow and pressures, and assess where water quality issues may be prevalent.

### 5.1 Water Model Development

The water model program used for this evaluation was the *Bentley WaterCAD version 8.1* model. The primary distribution system and nodes shown in Figure 8 were utilized as the basic infrastructure in the model. Demands were input to select nodes in each Service Area sub-basin based on the 50 percent build-out flows on a peak day. Pipe sizes were selected based on peak demands and desired fire flow availability. A water booster station and two possible elevated tank locations were also considered in the model.

Elevation and Tank Location – The western portion of the service area (Areas 2 and 4) are lower in elevation than those to the East (1 and 3). An elevated storage tank would therefore be required to serve the eastern portion. It is advisable to locate an elevated tank on the highest point available thereby reducing the required tank height and associated cost. A potential location for the tank is near the intersection of Route 250 and Route 15 with a base elevation of approximately 520 feet. This will also allow for the elevated tank to be on the same overflow elevation as the Louisa County tank (elevation 663), should the systems be connected in the future.

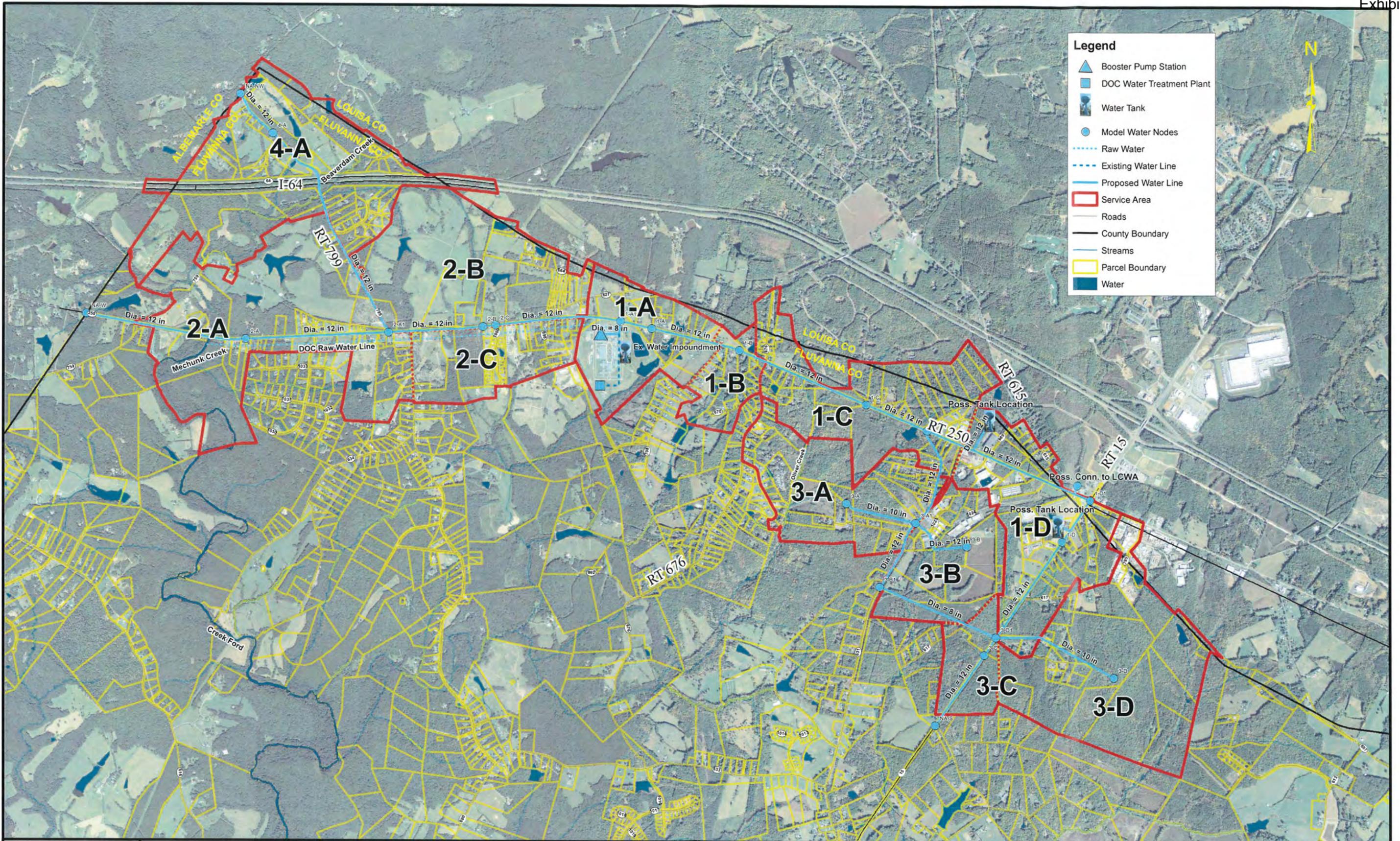
The input data for the water model is included in Appendix C.

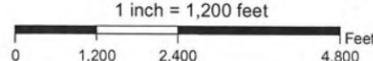
### 5.2 Storage Capacity Requirements

Storage is an essential part of any water system. In general, the purpose of storage within a water distribution system is to:

- Equalize supply and demand
- Provide for peak hourly demand periods
- Level out pumping requirements
- Provide water during source or pump failure
- Provide water to meet fire demands
- Meet state regulatory requirements

The demand for water changes throughout a 24-hour period. During the day, it is common for tanks to be emptying; while at night, the tanks refill again for the next day's peaks. If treated water is not available



	<div style="border: 1px solid red; padding: 2px; color: red; font-weight: bold; font-size: small;">REDUCED PLOT NOT TO SCALE</div>	<h2 style="margin: 0;">Figure 8 - Proposed Water System Layout</h2> <p style="font-size: x-small; margin: 0;">1 inch = 1,200 feet</p> <div style="text-align: center;">  </div>	<p style="font-weight: bold; font-size: small;">COUNTY OF FLUVANNA PER FOR WATER/WASTEWATER SERVICES</p> <p style="font-size: x-small;">Zion Crossroads Planning Area January 2015</p>	
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from storage, pumps have to be large enough to meet the peak hour demand. Since demand changes from hour to hour and day to day, without storage, pumps would have to meet an excessively wide range of operating conditions. The pumps would cycle frequently or be left on constantly causing increased wear on pump controls and motors, as well as increasing operations and maintenance costs. Storage allows the bulk of the pumping activity to occur during off peak hours reducing pumping costs by taking advantage of rate structures for electrical power.

System redundancy is increased with storage allowing short-term uninterrupted water system flows for times when full pump capacity may not be available due to power failure, mechanical breakdown, or preventive maintenance. Sudden increases in demand can be caused by line breaks, broken hydrants, fire or similar problems. In addition, the maximum output of water from the treatment plant or well sources may not be available for the same reason as the pumps or at the instantaneous capacity needed by the system. The well sources may have to be shut down due to raw water quality issues, maintenance or emergency repairs. Emergency storage provides flexible system capacity to accommodate such situations.

One of the major purposes for distribution system storage is meeting fire demands. Although fire demands may not occur frequently or require a long duration, they are much greater than consumer peak demands. In most cases, water systems, including storage, are designed to provide fire demand in addition to normal consumer needs. Fire demand can account for as much as 20% - 50% of the total capacity of a storage system.

In Virginia, the State Health Department requires a water system provide at least 200 gallons of "effective" storage per water connection. The term "effective" storage is used to exclude a quantity of storage that cannot provide a pressure of at least 20 psi throughout the distribution system under all conditions of flow. This means that unless a tank can provide at least 20 psi during a peak day and fire flow condition while it is empty, that tank cannot be considered 100% effective.

For the initial phase of the water system, a 500,000 gallon storage tank should provide enough capacity to meet the County's needs for close to 20 years. The required tank volume is determined by 3 primary components: fire flow, peak day equalization, and peak day usage. For a 2 hour fire flow at 1,500 gals/minute, this equates to 180,000 gallons of storage. The remaining 320,000 gallons will be used to meet the other objectives.

The storage tank capacity analysis is included in Appendix C. This analysis includes the required storage capacity at 10% of build-out flows, 50% of build-out flows, and 100% of build-out flows. Additionally, the upper demand projections were also analyzed for storage requirements based on the same percent build-outs. The results indicate that a 500,000-gallon storage tank will meet the requirements beyond the 20% build-out demands (for normal). This may not occur for 20 to 30 years, at such time, an additional elevated storage tank should be added to the system.

Although an elevated storage tank is recommended for the County, ground storage can also be utilized but will require a second water pump station. The pumps will need to be large enough to meet the fire flow



objectives of 1,500 gpm. In our opinion, this type of system is not as reliable as an elevated tank and requires more operational components. However, the construction cost of a ground tank/booster pump system is likely 20-30% less than an elevated tank. A reliable backup power system (or emergency generator) will also be required for this option.

### 5.3 Distribution System

Fire flow requirements are a large factor in the design of a water system. As discussed in the previous section, necessary fire flow capacity is a large part of the total tank storage capacity. Fire flows are also an important factor in the sizing of water mains. The larger the flow is through a water main, the greater the energy loss will be due to friction loss in the pipe corresponding to a loss of pressure in the system. A well designed system will be able to deliver the necessary fire flow plus the maximum day demand while maintaining a minimum of 20 psi at all points in the system. For the initial system, a 12 inch water main for the primary transmission lines along Route 250 and Route 15 were determined to be suitable. Sizing determination of the distribution system will be discussed further in Section 5.5.

### 5.4 Water Booster Station

A water booster pump station will be necessary to deliver water from the DOC water system to the new Zion Crossroads system. This is required because the new system will require a higher pressure to serve the eastern portion of the Service Area (approximately 30 psi higher). The booster station will be an above ground structure, most likely a 20 foot by 20 foot prefabricated building. The pumps (2 minimum) should be sized to deliver between 500 and 600 gallons per minute to the system and will operate when the water tank needs to be filled. Electronic monitoring and communication should be included to control the booster station and water tank automatically featuring both on site and remote access options by utility operators.

### 5.5 Water Model Results

Utilizing the components discussed previously in this section, a Steady State water model scenario was run for the 50% peak build-out demands. Below is a summary of pressure and fire flow results for each portion of the Service Area (Eastern and Western).

- Eastern Zone (Service Areas 1 and 3) – normal system pressures will range between 50 psi (Node 1D) and 80 psi (Node 1A), with available fire flow being over 2,000 gpm at 20 psi residual. These results will meet or exceed the system goals.
- Western Zone (Service Areas 2 and 4) – normal system pressures will range between 80 psi (Node 2-A1) to over 100 psi (Node 2-A). This is due to the lower ground elevations compared to the eastern zone. For normal system pressures above 80 psi, it is recommended to install pressure reducing valves (PRVs). This can either occur on the distribution system (near node 2B), or can be installed on future lines connecting to the transmission main. The available fire flow is between 1,300 gpm and 2,000 gpm in the western zone with the lower flows due to the distance



from the new elevated tank. Considering the model results, the system is only slightly below the goal of 1,500 gpm at the far reaches of Zones 2A and 4A.

In summary, the water model indicates a 12 inch distribution main along the primary roads combined with 8 inch looping in other areas will provide a very good backbone for the water system. This statement assumes that an elevated tank will be constructed in Zone 1D and a water booster station will be constructed at the DOC property.

All water model results are presented in Appendix C.

### **5.6 Alternate Water Source Connections**

It is recommended that Fluvanna County discuss a possible connection to the LCWA system near Route 250 and Route 15. Even if the available quantity is limited by LCWA, it would serve as an emergency backup supply benefitting both Counties and would also provide suitable pressures and a reasonable level of fire protection, should Fluvanna County need to delay the construction of a new storage tank. As the service area grows westward, it may also be beneficial to consider requesting a connection to Albemarle County. This could serve as a long term supplement as well as an emergency water source, should the primary County source have periodic issues.

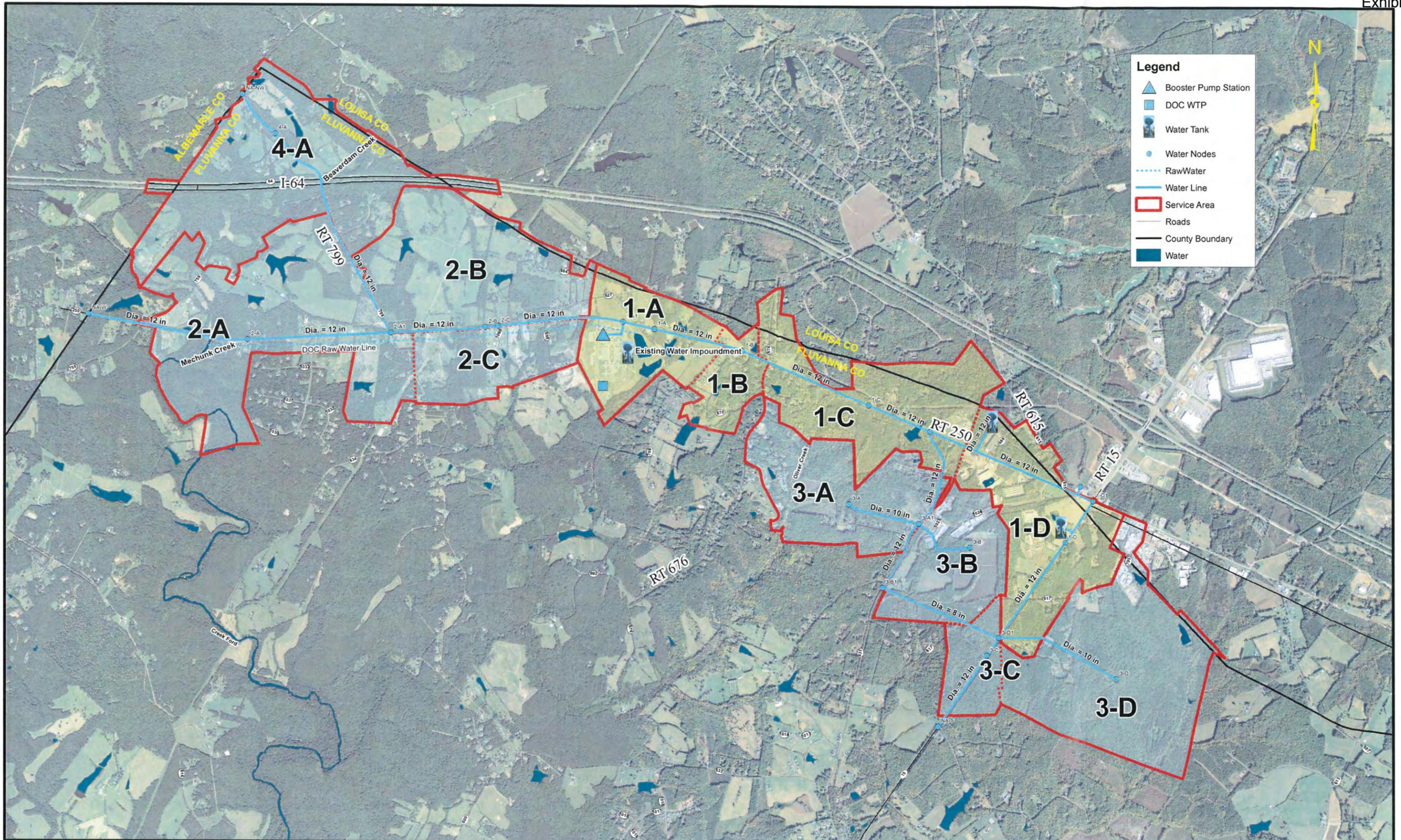
### **5.7 Phasing of Water System**

As part of this PER, a phased approach for construction of the improvements serving the area is recommended. The initial phase considers construction of the 12 inch diameter distribution main between the DOC and the intersection of Route 250 and 15 at Zion Crossroads. It also includes a portion of the distribution main running south. The total transmission main distance to serve Areas 1A thru 1D is approximately 25,000 linear feet. The first phase also includes the construction of the water booster station at DOC property and a new 500,000 gallon elevated storage tank near the intersection of Route 250 and Route 15. As other service areas develop, the transmission main and water loops shown should be constructed.

### **5.8 Cost of Water System, Phase 1**

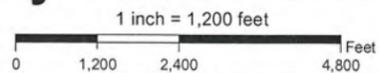
For budgeting purposes, preliminary cost estimates have been developed to provide the County with a sense of what it may cost to develop the water infrastructure that is shown in Figure 9. These cost numbers include engineering, inspection, property/easements, permitting and construction costs. The total project cost of a 12 inch water main from the limits of subarea 1D (Node 3-D1) to the DOC system is approximately \$2.4 Million. The total project cost of a new 500,000 gallon elevated storage tank is approximately \$2.1 million and the cost of a water booster station at DOC property is approximately \$0.6 Million. The total project cost of these 3 components is approximately \$5 Million. These costs can be further developed in the preliminary design phase once alignments and parcels are identified.

A summary of the project cost estimates is provided in Appendix C.



REDUCED PLOT  
NOT TO SCALE

Figure 9 - Water System Phased Improvements



COUNTY OF FLUVANNA  
PER FOR WATER/WASTEWATER SERVICES

Zion Crossroads Planning Area  
January 2015





## **6.0 WASTEWATER SYSTEM**

A preliminary layout of the primary sewage collection system components is presented as Figure 10. The system consists of gravity sanitary sewer collection mains serving the parcels in the Zion Crossroads Service Area as defined in previous figures. The gravity sewers convey flows to pumping stations discharging to smaller pressurized mains connected to a larger main. The larger main, which typically follows the primary roads of Route 250 and Route 15, conveys flows from the subareas to the centralized wastewater treatment facility. Considering the boundaries of the Area, the collection system should offer system-wide flexibility.

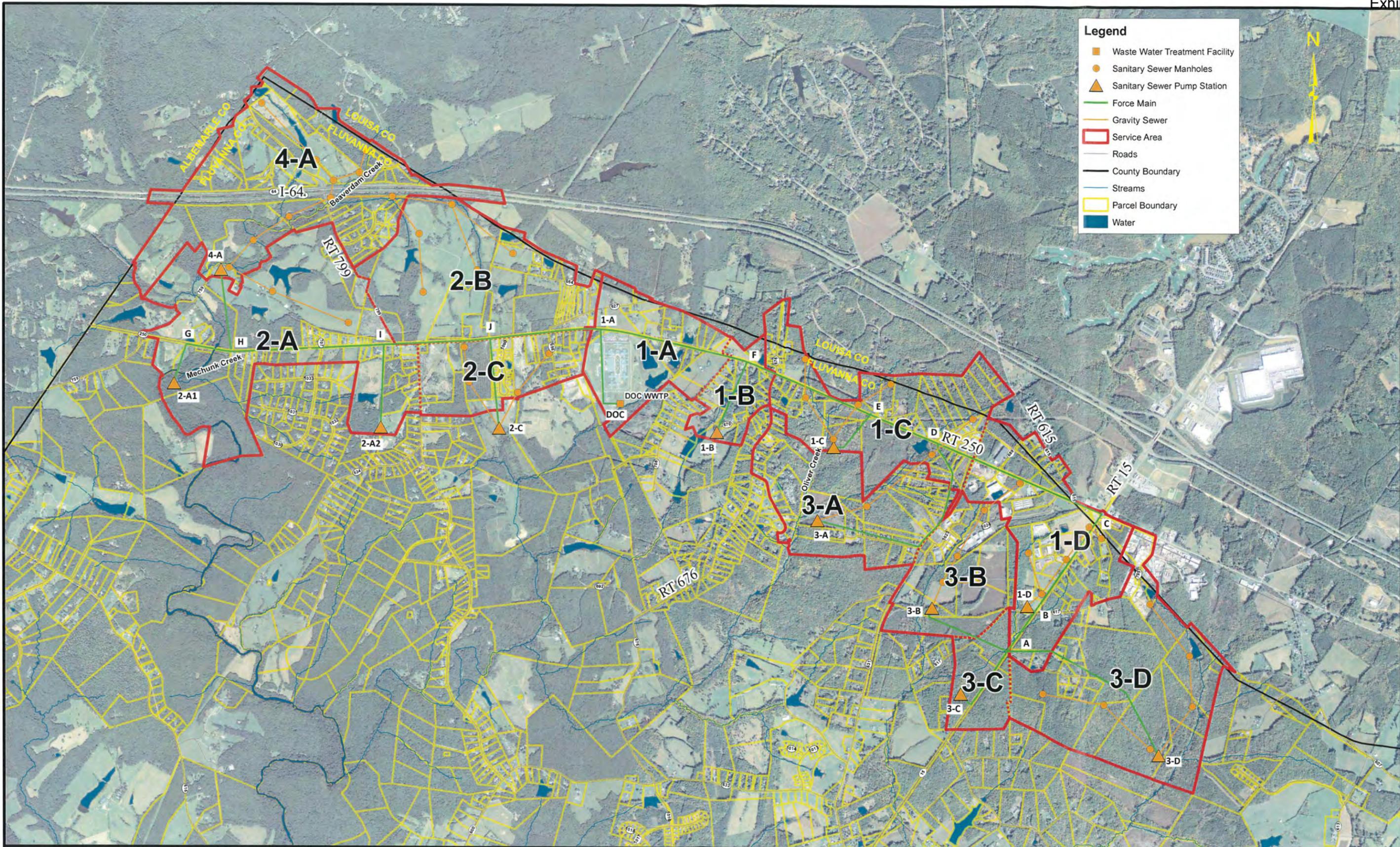
A preliminary sanitary sewer system layout is presented as Figure 10. Gravity sewer is depicted by the orange lines, pump stations by triangle symbols, and force mains are indicated in green. The pressure force main system is divided into two types of mains including:

- Force Mains – Smaller diameter force mains conveying flows from individual pump stations to a larger interceptor main. Considering the system layout, all pressure mains not aligned along Route 250 or 15 are considered force mains.
- Interceptor Main – Typically larger pressure mains conveying flows from multiple pump stations to the centralized wastewater treatment facility. Considering the system layout, the pressure mains aligned along Route 250 and 15 are considered interceptor mains.

As discussed in the Wastewater Treatment Options section, multiple alternatives are available for wastewater treatment. Initially, the DOC will likely be used to provide treatment for the Area until another alternative can be fully evaluated and implemented. This will require conveyance of all flows generated in the area presented in Figure 9 to the DOC. Considering the area with the greatest initial potential for development is near the I-64/Route 15 interchange, the bulk of the sewage generated in the Area will be conveyed westerly from Zion Crossroads to the DOC. As the Area develops and flow rates exceed the allotted DOC capacity, a supplemental or replacement alternative will require implementation. Considering the future system may involve a new facility in Palmyra requiring flow conveyance south along Route 15 or LCWA to the north of Zion Crossroads, the section of force main between the DOC and Zion Crossroads will be reversed conveying flows easterly. The sections between the DOC and Zion Crossroads were sized to convey flows in either direction minimizing future system upgrades. Given the wastewater treatment options, operational flexibility is critical for the section of force main between the DOC and Zion Crossroads.

### **6.1 Flow Projections**

The flow projections summarized in Table 2-2 were utilized for the design of the initial design of this system. The flow projections consider development in accordance with the land use as presented in Figures 4 and 5. A unit flow (gpd/ac) was assigned to each land use category in each subarea. The unit flow was multiplied by the developable acreage to determine the total average flow for a complete



	<p><b>REDUCED PLOT NOT TO SCALE</b></p>	<h3>Figure 10 - Proposed Sewer System Layout</h3> <p style="text-align: center;">1 inch = 1,200 feet</p> <div style="text-align: center;">  </div>	<p><b>COUNTY OF FLUVANNA PER FOR WATER/WASTEWATER SERVICES</b></p> <p>Zion Crossroads Planning Area January 2015</p>	
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area wide build out condition. A sewer peaking factor of 2.5 was applied to the total average flow to determine peak flow values.

## 6.2 Gravity Sewer

A preliminary layout of the gravity sewer collection system trunk lines is presented in Figure 9. Construction of any gravity sewer improvements is not anticipated with Phase I of the improvements for the area, but should be installed once significant developments have begun. The trunk lines are considered the larger components of the gravity sewer system conveying flows collected in the smaller gravity sewer sections serving small groups of parcels to the pump stations. The trunk lines are typically aligned along creeks or ravines and sloped in the same direction as the surrounding grades in order to collect flows from a larger area. Reviewing estimated flows, gravity sewer sizes are expected to range in diameter from 8 to 12-inch with the potential for somewhat larger trunk lines depending on the size of the subarea and needs of the development.

## 6.3 Force Mains

The force main will be sized to accommodate the peak flow from each basin plus the average daily flow from the other basins. The summary spreadsheets show the force main sizes and total head conditions for each of the five basins are shown in Appendix C. The optimal force main size is 6-inch through 10-inch. The minimum pumping rate to achieve scouring velocity of 2 feet/second in a 6-inch force main is 180 gpm, 320 gpm in an 8-inch force main and 500 gpm in a 10-inch force main.

As shown in Appendix C, multiple flow conditions were examined to size the force main system including:

- Full Build Out WW Peak Flow – Considers peak flow from a full area-wide build out with a 2.5 peaking factor
- 50% of Build Out WW Flow – Considers 50% flow from a full area-wide build out
- 50% of Build Out WW Peak Flow – Considers 50% flow from a full area-wide build out with a 2.5 peaking factor

Considering the potential for a complete area-wide build out is unlikely, the 50% flow values were used to select pipe sizes based on calculated pipe velocities. Velocities in the range of 2-8 feet per second are desirable for sewer force mains.

A preliminary layout of the pressure and interceptor mains is presented in Figure 10. Construction of an 8 inch or 10 inch interceptor main between DOC and Zion Crossroads is recommended as part of the initial phase of the improvements. Construction of force mains serving individual pump stations is not anticipated with Phase I of the improvements for the area, unless specific development agreements have been established. Reviewing estimated flows, pressure main sizes are expected to range in diameter from



6 to 10-inch. Force mains serving individual pump stations will likely be 6 to 8-inch diameter mains depending on the size of the subarea and needs of the development.

#### **6.4 Pump Stations**

A preliminary layout of the pump station locations are presented in Figure 10. Construction of any gravity sewer improvements including pump stations is not anticipated with Phase I of the improvements for the area. Pump stations are typically located in relatively low areas (i.e. along creek beds or ravines) to accommodate gravity sewer flows from higher elevations to the pump station through the trunk lines. Reviewing estimated flows, pump station sizes are expected to range in capacity from approximately 100 GPM to 600 GPM depending on the size of the subarea and needs of the development. Considering the estimated flow rates, a typical pump station will likely feature two pumps with 40 horsepower or less. Discharge flow rates from the pump stations are required by Virginia regulations to have a minimum of 2 feet/second velocity to prevent the accumulation of solids in the force mains.

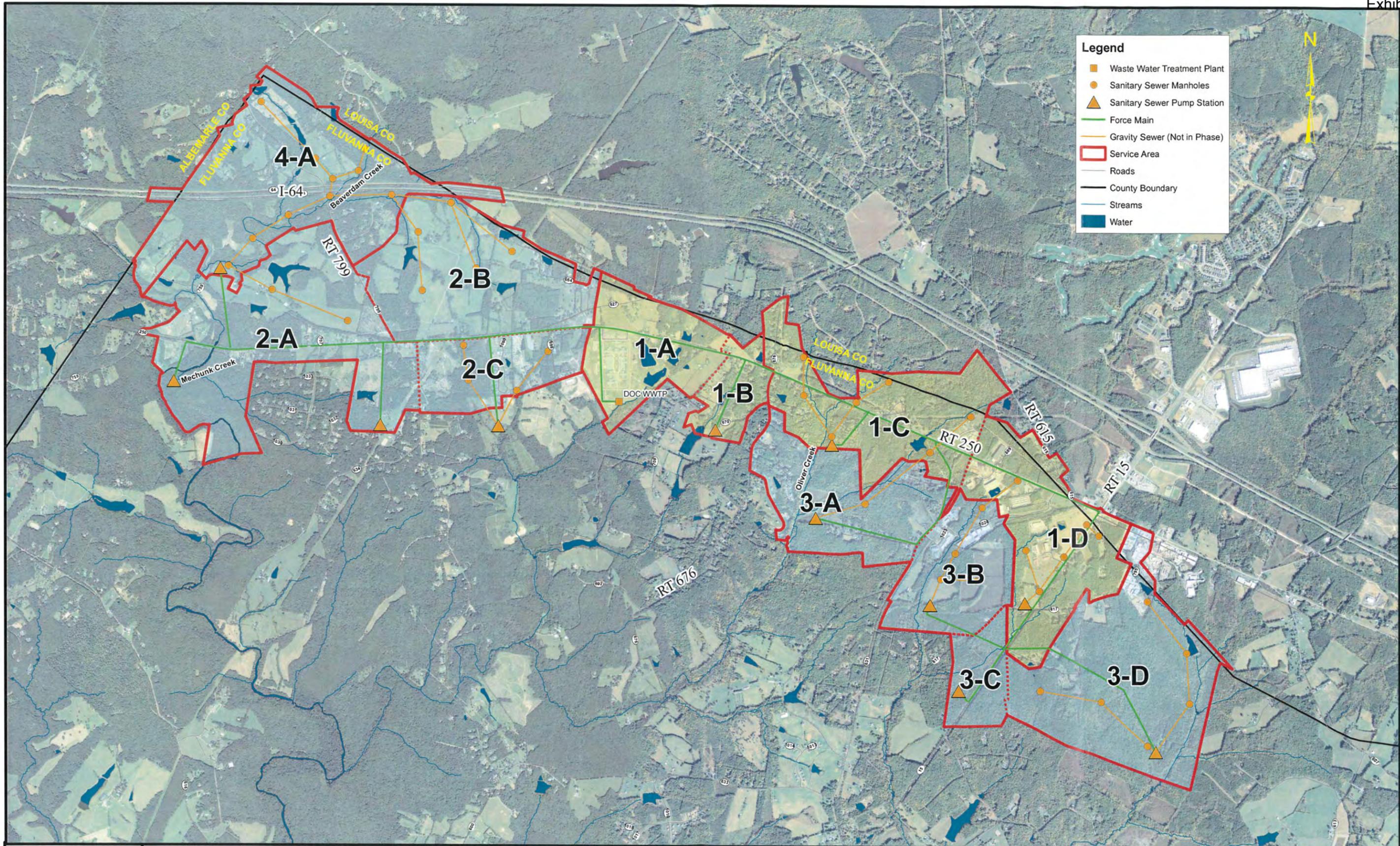
#### **6.5 Phasing of Sewer System**

As part of this PER, a phased approach for construction of the improvements serving the area is recommended. The initial phase considers construction of the interceptor main between the DOC and the intersection of Route 250 and 15 at Zion Crossroads. It also includes a portion of force main running south. The total interceptor force main distance to serve Areas 1A thru 1D is approximately 23,000 linear feet. Construction of gravity sewers, pump stations and force mains are development driven. As parcels develop, construction of gravity sewer, a pump station and a small force main conveying flows to the interceptor main will be necessary. Pump station location, gravity sewer and force main alignment and capacity will be as needed to serve the immediate development and any estimated development in the subarea. Funding, design and construction of these facilities will depend on the development requirements, County's policy on funding improvements and any agreements the County may have with a developer for use of the property.

#### **6.6 Cost of Sewer System, Phase 1**

For budgeting purposes, preliminary cost estimates have been developed to provide the County with a sense of what it may cost to develop the sewer infrastructure that is shown in Figure 11. The cost to provide a primary force main (approximately 23,000 linear feet) from the limits of 1D (node A) to the DOC WWTP (Node 2C) is approximately \$2 Million. This does not include any cost for an initial pump station or gravity sewer. For budgeting purposes, an allowance of \$1 Million would provide some of these components. These costs can be further developed in the preliminary design phase, once alignments and parcels have been identified along any potential conflicts that may impact cost.

A summary of costs is initial sewer system is provided in Appendix C.



**RK&K** **REDUCED PLOT NOT TO SCALE** **Figure 11 - Sewer System Phased Improvements**  
 1 inch = 1,200 feet  
 0 1,200 2,400 4,800 Feet

**COUNTY OF FLUVANNA**  
**PER FOR WATER/WASTEWATER SERVICES**  
 Zion Crossroads Planning Area  
 January 2015





## 7.0 RECOMMENDATIONS

Based on the information provided in this report, the following recommendations are offered for Fluvanna County in order to establish a water and wastewater system for the Zion Crossroads Area.

- 7.1 Source Water, Short Term** - It is recommended that the County proceed with the Agreement with the Department of Corrections to obtain up to 75,000 gallon per day of treated water. This is the most cost effective short term option and offers an established water source located within the central part of the proposed service area.
- 7.2 Source Water, Mid Term** - It is recommended that the County continue to investigate locations for supplemental ground water supply wells in the area of the DOC facility. Should a suitable yielding well(s) site be identified, these should be considered as a supply to the existing DOC impoundment. By increasing quantity to the impoundment, it is likely that the Virginia Department of Health will increase the permitted treatment capacity of the DOC facility, which may delay the need for a long term source.
- 7.3 Source Water, Long Term** – It is recommended that Fluvanna County discuss the opportunity to purchase long term potable water from the LCWA water treatment facility and transmission main that are planned for construction to serve the Zion Crossroads area.
- 7.4 Alternate Water Source Connections** – It is recommended that Fluvanna County discuss a possible connection to the LCWA system near Route 250 and Route 15. Even if the available quantity is initially limited by LCWA, it would serve as an emergency backup supply and would also provide suitable pressures and a reasonable level of fire protection should Fluvanna County need to delay the construction of a new storage tank. As the service area grows westward, it may also be beneficial to consider requesting a connection to Albemarle County. This could serve as a supplemental long term and emergency water source, should the primary County source have periodic issues.
- 7.5 Wastewater Treatment, Short Term** – It is recommended that the County proceed with the Agreement with the Department of Corrections to obtain up to 100,000 gallons per day of wastewater treatment. This is the most cost effective, short term option and offers a reliable wastewater treatment facility located within the central part of the proposed service area. The County should also consider requesting additional capacity even if per gallon costs increase, as this may help delay the need for a longer term option that is likely to be much more costly.
- 7.6 Wastewater Treatment Long Term** – there does not appear to be a clear, inexpensive option for wastewater treatment of the proposed service area as flows begin to exceed a few hundred thousand gallons. One option is to construct a regional facility in Palmyra, most likely near the site of the current 30,000 gallon per day facility. Due to the lack of nutrients (nitrogen and phosphorus) permitted for discharge, an added expense in addition to a very high level of treatment will be to purchase nutrient credits from an exchange bank or the County may be able to create their own nutrient credits through other County owned property/projects. The other option



is to request capacity from Louisa County Water Authority and their Spring Creek WWTP. This facility is capable to be expanded significantly (up to 1.5 MGD), so it is possible that some capacity could be purchased by Fluvanna County.

- 7.7 Alternative Wastewater Treatment Options** – It is recommended that the County conduct an evaluation to determine the feasibility of utilizing alternative wastewater treatment and disposal systems (in the next couple of years). Since discharging large flows to a stream or river will continue to have stringent permitting requirements, alternative treatment systems should be considered to manage a portion of the service area flow. Alternative treatment systems typically still require a reasonable level of treatment, but in lieu of discharging to a stream or river, they discharge to the subsurface such as a drainfield, drip irrigation system, or injection type system.
- 7.8 Water Reuse** - It is recommended that the County conduct a water reuse feasibility study in order to reduce the amount of wastewater needed for surface discharge (in the next couple of years). The water reuse study should also evaluate the potential to use gray water as a means to reduce wastewater discharge.
- 7.9 Distribution System, Phase 1** - In order to provide suitable water service to the initial target area for development (Service Area 1), it is recommended that the water distribution system along Route 250 and Route 15 be constructed (see Figure 11). A water booster station will also be necessary at DOC property to pump from their existing water tank to the new system (which will be at a higher pressure). It is also recommended that a 500,000 gallon elevated storage tank be constructed, should budgeting allow. See recommendation 7.3 for a possibility to delay storage for a short period. The initial estimated project cost for this system is \$5 Million.
- 7.10 Storage Tank Site Locations** - There are many land parcels in Service Area 1-D suitable for an elevated tank location. It is recommended that these sites be explored by the County before further development might limit options.
- 7.11 Sewer System, Phase 1** - In order to provide suitable sewer service to the initial target area for development (Service Area 1), it is recommended that a sewer force main system along Route 250 and Route 15 be constructed (see Figure 12). This represents approximately 23,000 linear feet of force main (6 inch thru 10 inch), with an initial project cost estimate of \$2.0 Million. This does not include any initial pump stations or gravity sewer.
- 7.12 Future Phases, Water and Sewer Systems** – once the initial water and sewer infrastructure becomes available, development interests should increase throughout the service area. As development plans and/or rezoning requests are submitted to the County, the expansion of the water and sewer systems should be considered.
- 7.13 Interim Operation and Maintenance** – until the flows in the system reach a reasonable level of capacity (25% and above), it will be necessary to maintain the new infrastructure in a proactive manner to maintain water quality and sewer reliability. An Interim Operations and Maintenance Plan should be developed with during the preliminary engineering phase of the project.



- 7.14 Overall TMDL Plan** – It is recommended that the County evaluate several alternate Total Maximum Daily Load (TMDL) options for reduction of nitrogen and phosphorus that can enter the Chesapeake Bay. Some of these options include stormwater management, agricultural management, and forest management. The TMDL Plan should be considered while developing the next update to the County Comprehensive Plan.
- 7.15 Develop Policy and Procedure Fee Structure** – It is recommended that the policies, governance, organizational structure, and fee requirements be determined prior to construction and start-up of the new water and sewer systems. This will allow the County to advertise the cost of service to prospective customers and the development community.



## **APPENDICES**

**APPENDIX A – Agreements and Permits**

**APPENDIX B – Previous Studies (key sections)**

**APPENDIX C – Outputs and Results**



## **APPENDIX A – Agreements and Permits**

- 1. DOC Memo Agreement with Fluvanna for Water Capacity**
- 2. DOC Memo Agreement with Fluvanna for Wastewater Capacity**
- 3. DOC Intake Withdrawal Permit for Mechunk Creek**
- 4. VDH Description Sheet for DOC Water Treatment Plant**
- 5. Aqua Proposal to Fluvanna County to provide water and sewer**
- 6. JRWA Agreement for Louisa/Fluvanna for James River Supply**
- 7. JRWA Withdrawal Permit from James River**

① DOC  
Water

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CORRECTIONS  
AND  
COUNTY OF FLUVANNA, VIRGINIA

MEMORANDUM OF AGREEMENT

THIS MEMORANDUM OF AGREEMENT, herein referred to as the "Agreement", made this 16<sup>th</sup> day of October, 2013 by and between the County of Fluvanna, Virginia (hereinafter referred to as the "County"), and the Commonwealth of Virginia, acting by and through its Department of Corrections, (hereinafter referred to as "DOC").

WITNESSETH

WHEREAS, DOC is the owner and operator of a water treatment plant (hereinafter referred to as the "Treatment Plant") serving the Fluvanna Correction Center (hereinafter referred to as "FCC" or the "Prison"); and

WHEREAS, the County is in need of additional treated water to meet long range development needs in the County; and

WHEREAS, DOC currently treats more water than it needs at the Treatment Plant; and

WHEREAS, the County has determined that it would be in the County's best interest to utilize water from the Treatment Plant.

NOW THEREFORE, IN CONSIDERATION of the mutual covenants and benefits contained herein, the parties agree as follows:

1. **WATER SUPPLY:** DOC hereby agrees that it will provide the County with a maximum daily flow of Seventy Five Thousand (75,000) gallons of treated water per day beginning on or after July 1, 2014.
2. **CONSTRUCTION OF DOC TRANSMISSION LINE TO BENEFIT THE COUNTY:** Fluvanna County shall construct a transmission line and meter to a connection point in the vicinity of FCC as necessary for THE County to obtain water under this Agreement. The transmission line and meter shall be constructed at no cost to DOC. All construction shall be in accordance with plans and specifications approved by DOC. Upon completion and acceptance of such transmission lines and meter, ownership shall be vested in DOC for that portion of the water system up to and including the meter installation, and DOC shall be responsible for operation and maintenance of the transmission line and meter.
3. **COST OF WATER:** The aforesaid allotment of water to the county shall be metered and paid for by the County at a rate of \$1.50 per one thousand (1,000) gallons of metered water. Both parties acknowledge that the rate is somewhat below DOC's current cost of water production. Prior to the end of each fiscal year, DOC will evaluate the costs to supply the County with water. If increased costs or budget limitations indicate that an increase is necessary, DOC will notify the County prior to the end of December of each state fiscal year that an increase is necessary and the amount of the increase. This notification will include any necessary information for the County to evaluate how such an increase in the rate was calculated. The increase will become effective on July one of the new fiscal year. Likewise if DOC's annual evaluation indicates that the cost to supply water to the County has decreased to a point where the cost of production is less than the rate then charged to the County, DOC will notify the County, prior to the end of December, that a reduction in the cost per one thousand (1,000) gallons will be effective on July 1 of the new fiscal year.

4. **PAYMENT:** DOC shall submit invoices each month showing the volume of water provided during the preceding month. Payment will be made to Treasurer, Commonwealth of Virginia, via electronic funds transfer or other methods of transfer mutually agreeable to the parties. Payment shall be due no later than 30 calendar days after receipt. Interest on late payments shall accrue at the rate of one percent (1%) per month. In the unlikely event that DOC needs to seek judgment for unpaid payments, the County shall be liable for reasonable attorneys' fees and other costs of collection. In the event of persistent or repetitive failure to pay, DOC may stop the flow of water and/or terminate this Agreement for material breach. Enumeration of these remedies shall not be deemed to waive any other remedy available.
5. **NON-APPROPRIATION FOR COUNTY:** Notwithstanding anything to the contrary contained herein, any obligation of the County to make a payment or to otherwise expend funds in a future fiscal year is specifically conditioned upon and subject to annual appropriation by the County Board of Supervisors, pursuant to applicable law.
6. **NON-APPROPRIATION FOR DOC:** The obligation incurred by DOC under this Agreement are contingent upon funds being appropriated by the legislative branch of State government and allocated by the executive branch for payment of said obligation. The County expressly acknowledges the existence and effect of Section 7 of Article 10 of the Constitution of Virginia.
7. **AMENDMENTS:** This Agreement shall not be altered, changed or amended except by a written agreement executed by the parties hereto.
8. **THIRD PARTY BENEFICIARIES:** This Agreement is for the sole and exclusive benefit of the signatory parties. The Agreement shall not be construed so as to bestow any benefit upon any other persons or entities and shall give rise to no legal right in such other persons or entities. Most specifically, this Agreement shall not be construed to bestow any legal rights upon any individual residents of Fluvanna County nor shall any portion of this Agreement be interpreted to do so.
9. **SOVEREIGN IMMUNITY AND POLICE POWERS:** By entering into this Agreement, the Commonwealth of Virginia does not waive its sovereign immunity and specifically retains its immunity and all defenses available to it. Furthermore, nothing contained herein is intended to diminish the police powers of the commonwealth or any part thereof nor delegate them to the County nor shall any portion of this Agreement be interpreted to do so.
10. **GOVERNMENTAL IMMUNITY OF THE COUNTY:** By entering into this Agreement, the County of Fluvanna does not waive its governmental immunity and specifically retains its immunity and all defenses available to it against any third party.
11. **SEVERABILITY:** In the event that any provision of this Agreement shall be held to be invalid by a court of competent jurisdiction, the validity of the remaining provisions of the Agreement shall not in any way be affected thereby.
12. **FORCE MAJEURE:** Neither party shall be liable for failure to perform under this Agreement if such failure to perform arises out of causes beyond the control and without the fault or negligence of the nonperforming party. Such causes may include, but are not limited to, acts of God, or the public enemy, fires, floods, epidemics, quarantine restrictions, freight embargoes, and unusually severe weather.
13. **HEADINGS AND PRONOUNS:** The headings contained in this Agreement are for reference purposes only and shall not affect the meaning or interpretation of this Agreement. All personal pronouns used in this Agreement, whether used in the masculine, feminine, or neuter gender, shall include all other genders; the singular shall include the plural and the plural shall include the singular.

14. INTEGRATION: This Agreement is an integration, which incorporates all the agreements, covenants, negotiations and understandings between the parties hereto concerning the subject matter hereof. No prior agreement or understandings, verbal or otherwise, of the parties or their agents shall be valid or enforceable unless expressly embodied in this Agreement.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed on their behalf by their duly authorized agents.

DEPARTMENT OF CORRECTIONS,  
COMMONWEALTH OF VIRGINIA

By: [Signature]  
Harold W. Clarke, Director

COMMONWEALTH OF VIRGINIA  
City of Richmond, to-wit:

The foregoing Agreement was acknowledged before me by Harold W. Clarke, Director of the Virginia Department of Corrections, Commonwealth of Virginia, on the 27<sup>th</sup> day of October, 2013 in the jurisdiction aforesaid.

My commission expires: January 31, 2015  
My notary registration number: 7509769

[Signature]  
Notary Public



COUNTY OF FLUVANNA, VIRGINIA

By: [Signature]  
Steve Nichols, County Administrator

COMMONWEALTH OF VIRGINIA  
COUNTY OF FLUVANNA, to-wit:

The foregoing Agreement was acknowledged before me by Steve Nichols County Administrator of Fluvanna County, Virginia on the 16 day of October, 2013 in the jurisdiction aforesaid.

My commission expires: 31 January 2016  
My notary registration number: 347136

[Signature]  
Notary Public

Approved as to form:

[Signature]  
Fluvanna County Attorney



② DOC  
Wastewater

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CORRECTIONS  
AND  
COUNTY OF FLUVANNA, VIRGINIA

MEMORANDUM OF AGREEMENT FOR TREATMENT OF WASTEWATER

THIS MEMORANDUM OF AGREEMENT, herein referred to as the "Agreement", made this 16<sup>th</sup> day of October, 2013 by and between the County of Fluvanna, Virginia (hereinafter referred to as the "County"), and the Commonwealth of Virginia, acting by and through its Department of Corrections, (hereinafter referred to as "DOC").

WITNESSETH

WHEREAS, DOC is the owner and operator of a wastewater treatment plant (hereinafter referred to as the "Treatment Plant") serving the Fluvanna Correctional Center (hereinafter referred to as "FCC" or the "Prison"); and

WHEREAS, the County is in need of additional treated wastewater disposal capacity to meet long range development needs in the County; and

WHEREAS, DOC currently has more wastewater treatment capacity than it needs at the Treatment Plant; and

WHEREAS, the County has determined that it would be in the County's best interest to treat additional wastewater at the Treatment Plant.

NOW THEREFORE, IN CONSIDERATION of the mutual covenants and benefits contained herein, the parties agree as follows:

1. **WASTEWATER TREATMENT:** DOC hereby agrees that it will treat for the County a maximum of One Hundred Thousand (100,000) gallons of wastewater per day beginning on or after July 1, 2014.
2. **CONSTRUCTION OF DOC TRANSMISSION LINE TO BENEFIT THE COUNTY:** Fluvanna County shall construct a transmission line and meter to a connection point in the vicinity of FCC as necessary for The County to transmit wastewater under this Agreement. The transmission line and meter shall be constructed at no cost to DOC. All construction shall be in accordance with plans and specifications approved by DOC. Upon completion and acceptance of such transmission lines and meter, ownership shall be vested in DOC for that portion of the wastewater system up to and including the meter installation, and DOC shall be responsible for operation and maintenance of the transmission line and meter.
3. **COST OF WASTEWATER TREATMENT:** The aforesaid allotment of wastewater capacity to the county shall be metered and paid for by the County at a rate of \$1.50 per one thousand (1,000) gallons of metered wastewater. Prior to the end of each fiscal year, DOC will evaluate the costs to treat the County's wastewater. If increased costs or budget limitations indicate that an increase is necessary, DOC will notify the County prior to the end of December of each state fiscal year that an increase is necessary and the amount of the increase. This notification will include any necessary information for the County to evaluate how such an increase in the rate was calculated. The increase will become effective on July one of the new fiscal year. Likewise if DOC's annual evaluation indicates that the cost to treat the County's wastewater has decreased to a point where the cost of production is less than the rate then charged to the County, DOC will notify the County, prior to the end of December, that a reduction in the cost per one thousand (1,000) gallons will be effective on July 1 of the new fiscal year.

4. PAYMENT: DOC shall submit invoices each month showing the volume of wastewater treated during the preceding month. Payment will be made to Treasurer, Commonwealth of Virginia, via electronic funds transfer or other methods of transfer mutually agreeable to the parties. Payment shall be due no later than 30 calendar days after receipt. Interest on late payments shall accrue at the rate of one percent (1%) per month. In the unlikely event that DOC needs to seek judgment for unpaid payments, the County shall be liable for reasonable attorneys' fees and other costs of collection. In the event of persistent or repetitive failure to pay, DOC may stop the treatment of wastewater and/or terminate this Agreement for material breach. Enumeration of these remedies shall not be deemed to waive any other remedy available.
5. UNUSUAL DISCHARGE: It is understood and agreed that no uncommon or unusual discharge from the County such as industrial, commercial or chemical type waste will be introduced into the wastewater treatment system without prior written approval from DOC. DOC reserves the right to sample and test the County's discharge and any point, therein, deemed crucial by the Department, upon the indication of such uncommon or unusual discharge and report such findings to the County for correction. Upon finding and verification of said uncommon or unusual discharge, the County shall reimburse DOC any and all cost associated with the sampling and testing for this uncommon or unusual discharge. The basis for this uncommon or unusual discharge shall be, hereby, set at a not to exceed rate of 400 mg/l of BOD, 400 mg/l of TSS, 40 mg/l (NH<sub>3</sub>-N) of Ammonia-Nitrogen, 250 mg/l (as CaCO<sub>3</sub>) Alkalinity and 6.0 stu of Ph. The said rates shall be sampled at a point whereby, DOC's own waste does not influence the findings of the County's waste. DOC shall request corrective action of the County only demonstration of said uncommon or unusual discharge for a continuous period not to exceed seven (7) days. DOC has the right to exempt this period only if a one time discharge completely renders the wastewater treatment plant inoperative and can demonstrate through sampling and testing, that the County's discharge is the sole cause.
6. SAMPLING BY THE COUNTY: The County reserves the right to perform its own sampling and testing upon the need to attest the Department's findings prior to the County instituting corrective action and or reimbursement. It is agreed that the County shall immediately perform this sampling and testing upon DOC's notification to the County that an uncommon or unusual discharge has occurred.
7. NON-APPROPRIATION FOR COUNTY: Notwithstanding anything to the contrary contained herein, any obligation of the County to make a payment or to otherwise expend funds in a future fiscal year is specifically conditioned upon and subject to annual appropriation by the County Board of Supervisors, pursuant to applicable law.
8. NON-APPROPRIATION FOR DOC: The obligation incurred by DOC under this Agreement are contingent upon funds being appropriated by the legislative branch of State government and allocated by the executive branch for payment of said obligation. The County expressly acknowledges the existence and effect of Section 7 of Article 10 of the Constitution of Virginia.
9. AMENDMENTS: This Agreement shall not be altered, changed or amended except by a written agreement executed by the parties hereto.
10. THIRD PARTY BENEFICIARIES: This Agreement is for the sole and exclusive benefit of the signatory parties. The Agreement shall not be construed so as to bestow any benefit upon any other persons or entities and shall give rise to no legal right in such other persons or entities. Most specifically, this Agreement shall not be construed to bestow any legal rights upon any individual residents of Fluvanna County nor shall any portion of this Agreement be interpreted to do so.
11. SOVEREIGN IMMUNITY AND POLICE POWERS: By entering into this Agreement, the Commonwealth of Virginia does not waive its sovereign immunity and specifically retains its immunity and all defenses available to it. Furthermore, nothing contained herein is intended to diminish the police powers of the

commonwealth or any part thereof nor delegate them to the County nor shall any portion of this Agreement be interpreted to do so.

12. GOVERNMENTAL IMMUNITY OF THE COUNTY: By entering into this Agreement, the County of Fluvanna does not waive its governmental immunity and specifically retains its immunity and all defenses available to it against any third party.

13. SEVERABILITY: In the event that any provision of this Agreement shall be held to be invalid by a court of competent jurisdiction, the validity of the remaining provisions of the Agreement shall not in any way be affected thereby.

14. FORCE MAJEURE: Neither party shall be liable for failure to perform under this Agreement if such failure to perform arises out of causes beyond the control and without the fault or negligence of the nonperforming party. Such causes may include, but are not limited to, acts of God, or the public enemy, fires, floods, epidemics, quarantine restrictions, freight embargoes, and unusually severe weather.

15. HEADINGS AND PRONOUNS: The headings contained in this Agreement are for reference purposes only and shall not affect the meaning or interpretation of this Agreement. All personal pronouns used in this Agreement, whether used in the masculine, feminine, or neuter gender, shall include all other genders; the singular shall include the plural and the plural shall include the singular.

16. INTEGRATION: This Agreement is an integration, which incorporates all the agreements, covenants, negotiations and understandings between the parties hereto concerning the subject matter hereof. No prior agreement or understandings, verbal or otherwise, of the parties or their agents shall be valid or enforceable unless expressly embodied in this Agreement.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed on their behalf by their duly authorized agents.

DEPARTMENT OF CORRECTIONS,  
COMMONWEALTH OF VIRGINIA

By: [Signature]  
Harold W. Clarke, Director

COMMONWEALTH OF VIRGINIA  
City of Richmond, to-wit:

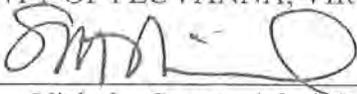
The foregoing Agreement was acknowledged before me by Harold W. Clarke, Director of the Virginia Department of Corrections, Commonwealth of Virginia, on the 27<sup>th</sup> day of October, 2013 in the jurisdiction aforesaid.

My commission expires: January 31, 2015  
My notary registration number: 7509769

[Signature]  
Notary Public



COUNTY OF FLUVANNA, VIRGINIA

By:   
Steve Nichols, County Administrator

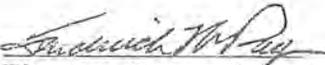
COMMONWEALTH OF VIRGINIA  
COUNTY OF FLUVANNA, to-wit:

The foregoing Agreement was acknowledged before me by Steve Nichols County Administrator of Fluvanna County, Virginia on the 16 day of October, 2013 in the jurisdiction aforesaid.

My commission expires: 31 January 2016  
My notary registration number: 347136

  
Notary Public

Approved as to form:

  
Fluvanna County Attorney



3

DOC Intake Permit  
Mechunck  
Creek



# COMMONWEALTH of VIRGINIA

## DEPARTMENT OF ENVIRONMENTAL QUALITY

Street address: 629 East Main Street, Richmond, Virginia 23219

Mailing address: P.O. Box 10009, Richmond, Virginia 23240

Fax (804) 698-4500 TDD (804) 698-4021

www.deq.state.va.us

W. Tayloe Murphy, Jr.  
Secretary of Natural Resources

Robert G. Burnley  
Director

(804) 698-4000  
1-800-592-5482

VWP Individual Permit Number 95-0957

Effective Date: March 5, 2002

Expiration Date: March 5, 2017

### VIRGINIA WATER PROTECTION PERMIT ISSUED PURSUANT TO THE STATE WATER CONTROL LAW AND SECTION 401 OF THE CLEAN WATER ACT

Based upon an examination of the information submitted by the owner and in compliance with § 401 of the Clean Water Act as amended (33 USC 1251 et seq.) and the State Water Control Law and regulations adopted pursuant thereto, the State Water Control Board (board) has determined that there is a reasonable assurance that the activity authorized by this permit, if conducted in accordance with the conditions set forth herein, will protect instream beneficial uses and will not violate applicable water quality standards. The board finds that the effect of the impact, together with other existing or proposed impacts to wetlands, will not cause or contribute to a significant impairment to state waters or fish and wildlife resources.

**Permittee:** Department of Corrections - Fluvanna Correctional Facility

**Address:** P.O. Box 1000 Troy, Virginia 22974

**Activity Location:** On Mechunck Creek at Route 250 in Fluvanna County

**Activity Description:** Water intake on Mechunck Creek

The permitted activity shall be in accordance with this Permit Cover Page, Part I - Special Conditions and Part II - General Conditions.

  
for Director, Department of Environmental Quality

  
Date

VWP Permit No. 95-0957  
Part I  
Page 1 of 2

Special Conditions

1. This permit authorizes the operation of a water supply intake on Mechunks Creek as indicated in the Joint Permit Application dated July 26, 1995 and the modification requested on January 12, 2002.
2. Any additional impacts to State waters associated with this project may require modification of this permit and mitigation.
3. This permit expires 15 years from its date of issuance.
4. The maximum daily withdrawal shall not exceed 0.72 million gallons.
5. The maximum annual withdrawal shall not exceed 92 million gallons. 0.252 MGD  
avg
6. The permittee shall record the volume of water withdrawn from Mechunks Creek each day.
7. The permittee shall monitor on a daily basis the provisional stream flow of the Rivanna River at Palmyra, U.S.G.S. gage # 02034000.
8. Except as authorized by condition 9 or 10, the permittee shall not withdraw water from Mechunks Creek unless the provisional stream flow of the Rivanna River at Palmyra, U.S.G.S. gage # 02034000 is greater than or equal to 220 cubic feet per second.
9. If the remaining water supply storage of the Fluvanna Women's Correctional Center is less than or equal to 50% of total storage, then the permittee may pump up to 0.42 million gallons daily, provided that the provisional stream flow of the Rivanna River at Palmyra, U.S.G.S. gage # 02034000 is greater than or equal to 100 cubic feet per second.
10. If the remaining water supply storage of the Fluvanna Women's Correctional Center is less than or equal to 25% of total storage, then the permittee may pump up to 0.144 million gallons daily regardless of the value of the provisional stream flow of the Rivanna River at Palmyra.

VWP Permit No. 95-0957  
Part I  
Page 2 of 2

11. The permittee shall file an annual monitoring report by January 31<sup>st</sup> of each year to demonstrate compliance with special conditions 4 through 10 during the previous calendar year. The report shall contain the following information: for each day; the date, the provisional streamflow of the Rivanna River at Palmyra, the percentage depletion of the water supply storage pond, the allowable and actual withdrawal from Mechunks Creek. The annual report shall also sum the total withdrawals for the year.
12. All written communications required by this permit shall be submitted to the Department of Environmental Quality, Office of Water Permits, P. O. Box 10009 Richmond, Virginia 23240. Please include the permit number on all correspondence.
13. Within 60 days of permit issuance the permittee shall submit for DEQ approval:
  - a. A description of the measuring methodologies for determining the storage remaining in the storage pond,
  - b. A written description of the frequency and method with which the gage will be checked
  - c. A description of how the permittee shall determine the volume of water remaining in the storage pond
  - d. A plan for what measures the permittee will put in place to estimate streamflow at the intake in the event that the Rivanna River at Palmyra gage is damaged, disabled or discontinued.

All methodologies shall be designed to yield data which are representative of the monitored activity.
14. Any report submitted in compliance with condition 11 must bear the applicant's signature or the signature of a person acting in the applicant's behalf, with the authority to bind the applicant.
15. Certification of reports. Any person signing the annual monitoring report shall include the following certification: "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."

## Part II – General Conditions

### A. Duty to Comply

The permittee shall comply with all conditions of the VWP permit. Nothing in this permit shall be construed to relieve the permittee of the duty to comply with all applicable federal and state statutes, regulations and prohibitions. Any VWP permit violation is a violation of the law, and is grounds for enforcement action, VWP permit termination, revocation, modification, or denial of an application for a VWP permit extension or reissuance.

### B. Duty to Cease or Confine Activity

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the activity for which a VWP permit has been granted in order to maintain compliance with the conditions of the VWP permit.

### C. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any impacts in violation of the permit which may have a reasonable likelihood of adversely affecting human health or the environment.

### D. VWP Permit Action

1. A VWP permit may be modified, revoked and reissued, or terminated as set forth in 9 VAC 25-210 et seq.
2. If a permittee files a request for VWP permit modification, revocation, or termination, or files a notification of planned changes, or anticipated noncompliance, the VWP permit terms and conditions shall remain effective until the request is acted upon by the board. This provision shall not be used to extend the expiration date of the effective VWP permit. If the permittee wishes to continue an activity regulated by the VWP permit after the expiration date of the VWP permit, the permittee must apply for and obtain a new VWP permit or comply with the provisions of 9 VAC 25-210-185.
3. VWP permits may be modified, revoked and reissued or terminated upon the request of the permittee or other person at the board's discretion, or upon board initiative to reflect the requirements of any changes in the statutes or regulations, or as a result of VWP permit noncompliance as indicated in subsection A above, or for other reasons listed in 9 VAC 25-210-180.

### E. Inspection and Entry

Upon presentation of credentials, any duly authorized agent of the board may, at reasonable times and under reasonable circumstances:

VWP Permit No. 95-0957  
Part II - General Conditions  
Page 2 of 4

1. Enter upon any permittee's property, public or private, and have access to, inspect and copy any records that must be kept as part of the VWP permit conditions;
2. Inspect any facilities, operations or practices (including monitoring and control equipment) regulated or required under the VWP permit, and
3. Sample or monitor any substance, parameter or activity for the purpose of ensuring compliance with the conditions of the VWP permit or as otherwise authorized by law.

**F. Duty to Provide Information**

1. The permittee shall furnish to the board any information which the board may request to determine whether cause exists for modifying, revoking, reissuing or terminating the VWP permit, or to determine compliance with the VWP permit. The permittee shall also furnish to the board, upon request, copies of records required to be kept by the permittee.
2. Plans, specifications, maps, conceptual reports and other relevant information shall be submitted as required by the board prior to commencing construction.

**G. Monitoring and Records Requirements**

1. Monitoring of parameters, other than pollutants, shall be conducted according to approved analytical methods as specified in the VWP permit. Analysis of pollutants will be conducted according to 40 CFR Part 136 (2000), Guidelines Establishing Test Procedures for the Analysis of Pollutants.
2. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
3. The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart or electronic recordings for continuous monitoring instrumentation, copies of all reports required by the VWP permit, and records of all data used to complete the application for the VWP permit, for a period of at least three years from the date of the expiration of a granted VWP permit. This period may be extended by request of the board at any time.
4. Records of monitoring information shall include:
  - a. The date, exact place and time of sampling or measurements;
  - b. The name of the individuals who performed the sampling or measurements;
  - c. The date and time the analyses were performed;

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- d. The name of the individuals who performed the analyses;
- e. The analytical techniques or methods supporting the information such as observations, readings, calculations and bench data used;
- f. The results of such analyses; and
- g. Chain of custody documentation.

#### **H. Reopener**

This permit may be reopened to modify conditions to meet new regulatory standards duly adopted by the board. Cause for reopening a permit includes, but is not limited to when the circumstances on which the permit was based have materially and substantially changed, or special studies conducted by the board or the permittee show material and substantial change, since the time the permit was issued and thereby constitute cause for permit modification or revocation and re-issuance.

#### **I. Compliance with State and Federal Law**

Compliance with this permit constitutes compliance with the VWP permit requirements of the State Water Control Law. Nothing in this VWP permit shall be construed to preclude the institution of any legal action under or relieve the permittee from any responsibilities, liabilities, or other penalties established pursuant to any other state law or regulation or under the authority preserved by § 510 of the Clean Water Act.

#### **J. Property rights**

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize injury to private property or any invasion of personal rights or any infringement of federal, state or local law or regulation.

#### **K. Transferability**

Except as provided for under automatic transfer, a permit shall be transferred only if the permit has been modified to reflect the transfer or has been revoked and reissued to the new permittee. A permit shall be automatically transferred to a new permittee if:

1. The current permittee notifies the board within 30 days of the proposed transfer of the title to the facility or property;
2. The notice to the board includes a written agreement between the existing and proposed permittee containing a specific date of transfer of permit responsibility, coverage and liability to the new permittee, or that the existing permittee will retain such responsibility,

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coverage, or liability, including liability for compliance with the requirements of any enforcement activities related to the permitted activity; and

3. The board does not within the 30-day time period notify the existing permittee and the new permittee of its intent to modify or revoke and reissue the VWP permit.

**L. Civil and criminal liability**

Nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

**M. Unauthorized discharge of pollutants**

Except in compliance with this permit, it shall be unlawful for the permittee to dredge, fill or discharge any pollutant into, or adjacent to surface waters, or otherwise alter the physical, chemical or biological properties of surface waters, excavate in wetlands, or on or after October 1, 2001, conduct the following activities in a wetland:

1. New activities to cause draining that significantly alters or degrades existing wetland acreage or functions;
2. Filling or dumping;
3. Permanent flooding or impounding; or
4. New activities that cause significant alteration or degradation of existing wetland acreage or functions.

**N. Severability**

The provisions of this permit authorization are severable.

**O. VWP Permit Extension**

Any permittee with an effective VWP permit for an activity that is expected to continue after the expiration date of the VWP permit, without any change in the activity authorized by the VWP permit, shall submit written notification requesting an extension. The permittee must file the request prior to the expiration date of the VWP permit. Under no circumstances will the extension be granted for more than 15 years beyond the original effective date of the VWP permit. If the request for extension is denied, the VWP permit will still expire on its original date and, therefore, care shall be taken to allow for sufficient time for the board to evaluate the extension request and to process a full VWP permit modification, if required.



**STATE DEPARTMENT OF HEALTH  
ENGINEERING DESCRIPTION SHEET**

**DATE:** January 15, 1998  
(Revised July 28, 2006)

**WATERWORKS NAME:** Fluvanna Correctional Center for Women  
**CERTIFIED CLASS:** II

**COUNTY/CITY:** Fluvanna County  
**TYPE:** Community

**LOCATION:** This waterworks is located on the south side of U.S. Route 250 approximately 3 miles west of the intersection of U.S. Route 250 and U.S. Route 15 at Zion Crossroads.

**OWNER:** Virginia Department of Corrections  
**Contact:** Mr. Roy E. Carter, III  
6900 Atmore Drive  
P.O. Box 26963  
Richmond, VA 23261  
**Phone:** 804-674-3000 (Richmond)  
**Phone:** 434-984-3700 (Local Office)

**OPERATOR:** Virginia Department of Corrections  
**Contact:** Mr. Robert Wheeler (Class I license)  
Fluvanna Correctional Center for Women  
P.O. Box 1000  
Troy, VA 22974  
**Phone:** 434-963-2584 **Fax:** 540-963-2587

**PERMIT NUMBER:** 2065250

**DATE ISSUED:** January 15, 1998

**TYPE OF TREATMENT:** Pre-oxidation, Rapid mixing, Flocculation/Clarification, Filtration, Chlorination, Corrosion Control

**SOURCE:** Mechunk Creek

**DESIGN CAPACITY:** 0.25 MGD

**DESCRIPTION OF SYSTEM**

The Fluvanna Correctional Center for Women waterworks consists of a raw water intake and pump station on Mechunk Creek, a 40 MG raw water storage impoundment, a raw water impoundment pump station with pre-oxidation chemical feed capability, dual solids contact reactor flocculator/clarifiers, dual high rate gravity sand filters, chlorine disinfection and corrosion control treatment. Distribution storage facilities consist of a 300,000 gallon welded steel, elevated tank. Emergency generators are also provided.

**Raw Water Source and Intake:** The raw water intake is located on Mechunk Creek, which is approximately 2.7 miles west of the correctional facility. The run of the river intake is provided with three non-clog submersible pumps protected by intake screens. An air burst system is

PWSID 2065250

also provided to clean the protective screens. Pump number 1 will deliver 200 gpm at 170 feet TDH and is equipped with a 30 HP motor. Pumps number 2 and 3 will deliver 500 gpm at 193 feet TDH each and are equipped with 60 HP motors. Raw water piping consists of 13,400 feet of 10 inch diameter PVC water main.

From the Mechunk Creek intake and pump station, water is delivered to a raw water impoundment located adjacent to the correctional facility. The basin has a maximum water depth of 30 feet and provides a total volume of 40 million gallons and an effective storage volume of 35 million gallons. The calculated safe yield of the river intake/storage impoundment is 250,000 gpd. The impoundment is provided with a water withdrawal structure, pump station and chemical feed building. The withdrawal structure consists of four 12 inch ductile iron pipes which allow for water withdrawal from the impoundment at elevations 419, 429, 439 and 446 feet, respectively. The pump station is equipped with dual non-clog submersible pumps each capable of delivering 280 gpm at 14.87 feet TDH to the water treatment plant.

The water treatment plant is enclosed in an 84 foot by 44 foot treatment building. The facility consists of chemical feed facilities, in-line static mixer, dual solids contact flocculator/clarifiers, two dual media, high rate gravity filters, gas chlorination and other chemical feed facilities.

**Chemical Feed Capability:** Provisions are provided to feed carbon and potassium permanganate at the impoundment and liquid alum, soda ash, polymer, corrosion inhibitor and chlorine at various locations within the water treatment plant.

The **carbon feeder** is located in the 10 foot by 15 foot impoundment pump station control building and consists of a volumetric, screw type feeder with a 1.6 cubic feet hopper and 75 gallon fiberglass solution tank with a ¼ HP mixer. The feeder is capable of a maximum feed rate of 2.0 cubic feet per hour. Piping is provided to feed carbon into the discharge of the impoundment raw water pump station.

The **potassium permanganate** feeder is located in the 10 foot by 15 foot impoundment pump station control building and consists of a 35 gallon solution tank and an electronic diaphragm metering pump rated at 0.44 gallons per hour (10.6 gallons per day). Potassium permanganate solution is injected into the discharge of the impoundment raw water pump station.

The **liquid alum** feed equipment includes an outside 1,500 gallon bulk storage tank, a 30 gallon day tank, and a solution metering pump capable of delivering 1.83 gallons per hour (44 gallons per day). Liquid alum is injected just prior to the in-line static mixer. A spare alum feeder is provided.

The **soda ash** feed equipment consists of a volumetric, screw type feeder with a 1.6 cubic feet hopper and 75 gallon fiberglass solution tank with a ¼ HP mixer. The feeder is capable of a maximum feed rate of 2.0 cubic feet per hour. Piping is provided to feed soda ash into the raw water line just ahead of the static in-line mixer and into the finished water clearwell.

The **poly-phosphate corrosion inhibitor** feed equipment consists of a drum mounted, electronic chemical feed pump rated at 2.37 gallons per hour (57 gallons per day). Poly-phosphate solution is contained in 55 gallon drums from the manufacturer. The pump discharges directly into the finished water clearwell.

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The **polymer** feed equipment consists of a 30 gallon storage tank, ½ HP mixer, and a dual feed metering pump capable of delivering a maximum of 16 gallons per hour. Piping is provided to inject polymer into the raw water line ahead of the in-line static mixer and to the filter influent.

**Rapid Mix:** Rapid mixing is provided by an in-line static mixer measuring 6 inches in diameter by 3.0 feet long located in the raw water influent main. Chemical injection points are provided for soda ash, liquid alum, chlorine, and polymer.

**Flocculation/Clarification:** Following chemical addition and rapid mixing, water flows into dual upflow solids contact flocculator/clarifiers. Each unit measures 16 feet in diameter with a side water depth of 12 feet 4 inches and provides a total volume of 18,800 gallons. Each unit is designed to handle a flow rate of 140 gpm providing a total hydraulic detention time of 134 minutes (2.23 hours). The internal cone section has a slope of 50 degrees from the horizontal and separates the flocculating zone from the settling zone. The flocculating zone has an effective volume of 2,900 gallons and provides a hydraulic detention time of 20 minutes. The propeller type flocculator/mixer measures 13 inches in diameter and is equipped with a variable speed control unit. The solids contact upflow clarifier section has an effective surface area of 149.23 ft<sup>2</sup>. The corresponding surface overflow rate is 0.96 gpm/ft<sup>2</sup> at the 140 gpm design flow rate. The clarifier section effective volume is 15,900 gallons providing a hydraulic detention time of 1.9 hours.

Coagulation control is provided by a Streaming Current Monitor. Additional process control/monitoring includes constant monitoring and recording turbidimeters for the raw water, settled water, filter effluent, and finished water; and constant monitoring and recording pH for the treated water (flash mix effluent), applied water, and finished water.

**Filtration:** Filtration is provided by two dual media high rate gravity filters. Each filter measures 5.5 feet by 6.7 feet for a surface area of 37 ft<sup>2</sup>. The effective filtration rate is 3.8 gpm/ft<sup>2</sup> at the 280 gpm design flow rate (140 gpm per filter). Filter media consists of an 18 inch layer of 1.0 to 1.2 mm anthracite and a 12 inch layer of 0.45 to 0.55 mm silica sand. The filter underdrain system consists of a steel plate with threaded connections on 8 inch centers over the entire filter bottom. The threaded openings are provided with high strength plastic distributors with 0.014 inch slots. Filter backwash is provided at a design rate of 15 gpm/ft<sup>2</sup> with a simultaneous air scour of not less than 2 cfm/ft<sup>2</sup>. Filter backwash water is provided by gravity from the elevated storage tank.

**Disinfection:** Chlorination equipment consists of dual V-Notch, wall mounted, vacuum chlorinators located in an 8 foot by 14 foot separate room in the water treatment building. The chlorination system includes two gas manifolds each with three 150 pound cylinder connection, auto switchover controls, two-cylinder scale, emergency repair kit, chlorine leak detector, and wall mounted self contained gas mask. Solution piping allows chlorine injection into the raw water at the static mixer, into the filter influent, and into the finished water clearwell. Each chlorinator is capable of delivering 100 pounds per day.

The finished water clearwell provides chlorine contact prior to pumping into the elevated storage tank. Three baffle walls are provided to prevent short circuiting. The clearwell flow path measures 110 feet long by 5 feet wide with a 6 feet normal water depth. The clearwell provides a total effective volume of 24,684 gallons and an effective hydraulic detention time of 88 minutes at the 280 gpm design flow rate. The calculated log inactivation for Giardia from the disinfection process (CT) is 1.481 assuming a free chlorine residual of 1.0 mg/L, a pH of 7.5 and a water temperature of 5°C.

PWSID 2065250

**Finished Water Pumps:** Clearwell finished water pumping is provided by two, 25 HP, three stage, vertical turbine pumps each of which will deliver 280 gpm at 198 feet TDH. Finished water is pumped into the distribution system and elevated water storage tank via a 12-inch water main.

**Storage:** Distribution storage is provided by a 300,000 gallon welded steel elevated storage tank. The elevated tank is a double-ellipsoidal design with a net storage capacity of 300,000 gallons and a head range of 30 feet. The base of the tank rests on a circle of peripheral tubular steel columns 135 feet above the ground surface. A 12 inch in diameter ductile iron inlet/outlet pipe terminates 18 inches above the bottom of a 48 inch in diameter steel riser pipe which conveys the water to/from the tank. The riser pipe contains an interior ladder extending from the base of the riser to the roof access hatch and a 14 inch by 18 inch manhole located 3 feet above the foundation. Tank appurtenances include an 8 inch diameter, screened overflow pipe with flap gate discharging onto a splash pad at grade level, a 6 inch diameter screened tank drain, a 24 inch diameter watertight shoebox-type roof access hatch, a 20 inch diameter screened tank vent at the center of the roof; fixed ladders on the tower from 10 feet above grade to a circumferential balcony, a fixed outside ladder to the roof hatch, and a flashing red beacon.

#### EVALUATION OF SYSTEM

**Design Capacity:** Per *Waterworks Regulations*, one ERC (Equivalent Residential Connection) = 400 GPD – defined as a volume of water assumed to be used by a residential connection.

**Source Water Safe Yield:** The safe yield of the Mechunk River intake and 40 million gallon impoundment has been calculated by Dewberry and Davis to be equal to 250,000 gpd.

**Raw Water Pumping:** Mechunk River Pump Station maximum pumping capacity with the single largest pump out of service is equal to 700 gpm (1,008,000 gpd). The Department of Environmental Quality withdrawal permit (VWP Permit No. 95-0957) limits the maximum instantaneous withdrawal from Mechunk Creek to 500 gpm (720,000 gpd).

**Impoundment Raw Water Pumping:** The impoundment pump station single pump design capacity is equal to 280 gpm (400,000 gpd).

**Treatment Design Basis:** The treatment facility is designed for a maximum design flow of 280 gpm (400,000 gpd) limited by the rate of filtration to 3.8 gpm/ft<sup>2</sup> and the effective hydraulic capacity of the solids contact flocculator/clarifier.

**System Storage:** Distribution system storage is provided by a 300,000 gallon elevated storage tank. In order to maintain 20 psi at the critical point in the system during a fire flow event, 28 psi must be maintained at the base of the tank. Therefore, usable volume in the riser pipe will start at a point  $(28 \times 2.3077) = 64.6$  feet above ground level and rise to the bottom of the tank at 135 feet above the ground surface.

Therefore, the effective total storage volume of the tank is:

$$300,000 \text{ gal} + (135 \text{ ft} - 64.6 \text{ ft}) \pi (2 \text{ ft}^2) \times (7.48 \text{ gal/ft}^3) = 306,618 \text{ gal}$$

$$306,618 \text{ gal} \div 200 \text{ gal/ERC} = 1,533 \text{ ERCs}$$

$$1,533 \text{ ERCs} \times 400 \text{ gpd/ERC} = 613,236 \text{ gpd}$$

PWSID 2065250

Based on the above evaluation, the design capacity of the overall waterworks is equal to 250,000 gpd limited by the safe yield of the Mechunk Creek intake and proposed impoundment. The water treatment facility is designed to treat a flow rate of 280 gpm or 400,000 gpd and is approved to treat water at this flow rate when available from the source impoundment.

JWM/SJK/kl



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1  
Aqua Proposal for  
Water & DOC Sewer

**AQUA.**

Aqua Virginia, Inc.  
2414 Granite Ridge Rd.  
Rockville, VA 23146

T: (804) 749-8868  
F: (804) 749-8002  
www.aquaamerica.com

May 4, 2012

**BY HAND DELIVERY**

Mr. Steven M. Nichols, County Administrator  
Fluvanna County Office Building, Main Street  
P. O. Box 540  
Palmyra, Virginia 22963

Re: **Proposal to Provide Water Service & a Sewer  
Collection System to Zion Crossroads**

Dear Mr. Nichols:

On behalf of Aqua Virginia, Inc., we are pleased to provide this proposal to initiate the approval process pursuant to Virginia Code §56-575.4(A) of the Public-Private Educational Facilities Infrastructure Act (PPEA).

Please let us know the amount of your proposal review fee, if any, and we will promptly provide it to you.

As required by the Section VI.A of the County of Fluvanna Amended and Restated Guidelines and Procedures and by the applicable provisions of the PPEA, we are enclosing the following items for your consideration in reviewing this proposal:

**QUALIFICATION AND EXPERIENCE**

**Legal Structure of Aqua:** Aqua Virginia, Inc., a Virginia corporation, is a subsidiary of Aqua America, Inc., one of the nation's largest investor owned water and wastewater utilities that serves approximately 3,000,000 residents in 13 states (hereinafter, "Aqua").

**Experience & Organizational Aspects of Project:** We have been in business since 1886 and have a proven track record of making the necessary capital investments to ensure environmentally safe and reliable services wherever we operate. Aqua owns and operates over 140 water and sewer systems throughout Virginia and serves over 27,000 customers. Aqua is no stranger to Fluvanna County. In fact, one of Aqua America, Inc.'s affiliates, Aqua Resources, Inc., is among the top four taxpayers in Fluvanna County. (See: County Comprehensive Plan, page 146.) In addition, we have extensive experience in the construction and management of water treatment and wastewater treatment facilities, including the lines and facilities necessary for their operation.

For purposes of the organizational structure of the proposed project, Aqua would be solely responsible for constructing the water and wastewater facilities, either directly or through the use of its own subcontractors. From a management perspective, it is anticipated that all subcontractors shall be solely responsible to Aqua with respect to project implementation.

We have engaged in numerous projects that are comparable to this proposal. For example, since 2004, Aqua Virginia, Inc. has spent over 52 million in capital improvements to water and sewer systems, upgrading Lake Monticello's WWTP from 0.6 to 0.775 MGD, constructing a 3 MGD settling basin at the Lake Monticello's water plant, and overall at Aqua America, capital spending was 330 million in 2011 which included many miles of new water mains. The key personnel managing this project would be Clifton L. Parker, IV, P.E., Director Corporate Development & Engineering, and Tim E. Castillo, Area Manager.

We anticipate that the engineering and design work for the project will be handled by Thomas Davis Rust, P.E., PHR+A, a Pennoni Company, 14532 Lee Road, Chantilly, Virginia 20151. The construction firms for the project could likely be one of the following companies, depending upon bidding responses and availability:

W.C. Spratt, Pete Strychowski  
PO Box 824  
Fredericksburg, VA 22404

KP Glass, Chris Simms  
2423 Granite Ridge Road  
Rockville, Virginia 23146

WCC Cable, Tim Rioux  
4809 Ewell Road  
Fredericksburg, Virginia 22408

To the extent that completion guarantees are negotiated, it is likely that the following bonding company will be engaged by Aqua: Traveler's Casualty and Surety Company of America.

**Contact Information:** The names and addresses of the persons who may be contacted for further information concerning this proposal are as follows:

Clifton L. Parker, IV, P.E., Director Corporate Development & Engineering  
2414 Granite Ridge Road  
Rockville, Virginia 23146  
(804) 310-0398 / Email: CLParkerIV@aquamerica.com

**Financial Statement:** For your consideration, we are enclosing our most recently audited financial statements shown in the 2011 Annual Report.

**Conflict of Interests:** To the best of my information and belief, there are no persons who would be voting upon the merits of this project as a County officer who would have to disqualify himself or herself from participation in any transaction arising from or in connection with the project pursuant to the Virginia State and Local Government Conflict of Interest Act.

### **PROJECT CHARACTERISTICS**

**Project Conceptual Maps:** We have enclosed two topographic maps entitled, "AQUA VIRGINIA, INC., **Exhibit A**, Concept Drawing Proposed Route from L.M. to Zion Crossroads," dated March 9, 2012, indicating the location of the qualifying project as well as **Exhibit B**, entitled, "AQUA VIRGINIA, INC., **Exhibit B**, Concept Drawing, Proposed Route from Prison to Zion Crossroads" dated March 9, 2012.

**Description of the Water Project:** Aqua proposes to construct a potable water line from Lake Monticello's water plant that will extend approximately 8.5 miles, as shown on the attached Exhibit A, to approximately the Route 15 and Route 250 intersection ("Water System"). The Water System shall include, but not be limited to, the pipe, easements and right of ways, pumps, storage tanks, meters, hydrants, all appurtenances associated with water supply, and infrastructure installed as part of the construction, operation, maintenance, and replacement of the System.

The general terms and assumptions for the Water System are as follows:

- a. The Department of Corrections will be the initial customer using water in the amount of approximately 120,000 gallons per day ("GPD").
- b. An Aqua affiliated company shall design, permit, construct, own, operate, and maintain the Water System at its sole cost and expense.
- c. Fluvanna County shall be responsible for securing and administering all of its customers and its service territory served by Aqua's waterline.
- d. Fluvanna County, at its sole discretion, will establish water connection fees and rates, and collect those monies.
- e. Aqua, through its affiliate, will provide up to 500,000 GPD of capacity in the Water System to Fluvanna County.
- f. Aqua shall prepare and submit the proposed engineering report to the Virginia Department of Health for the System.

g. Aqua and Fluvanna County will jointly coordinate the construction project for the Water System and Sewer System, easement acquisition, design, bidding, construction, and start-up of the System at Aqua's expense estimated at \$9,061,340.00, with the understanding that if the total project bid plus other costs, including, but not limited to, "soft costs," exceed 20% of the estimate, Aqua may suspend the project, with the option of making changes and re-bidding.

h. Fluvanna County will take a dominant role along with Aqua in acquiring any needed easements on behalf of the Water System and Sewer System. County staff efforts on this project will be at the County's expense.

i. Aqua will supply the Water System with water, operate the Water System, process Miss Utility tickets, read Fluvanna County's customer's meters serviced by Aqua's Water System, and supply the meter readings to Fluvanna County monthly.

j. Fluvanna County will make taps to the Water System and Sewer System and be responsible for its metered connections and service lines.

k. Aqua shall inspect and approve all taps to the water main for a nominal fee that will be negotiated by the parties.

l. Aqua shall meter all flow into the water main from Lake Monticello's water plant.

m. Fluvanna County shall be responsible for an annual payment of \$950,000.00 per year for the Water System, subject to annual increases based upon the Consumer Price Index ("CPI") that governs the greater Charlottesville, Virginia area. The annual payment is estimated based on a \$9,061,340.00 project cost, which includes right-of-way acquisition fees, and shall entitle Fluvanna County to 127,000 GPD of flow for no additional charge. For any usage over the 127,000 GPD, Fluvanna County shall be responsible for the payment of \$2.95 per thousand gallons, subject to annual increases based upon the CPI. In the event that the acquisition cost of the necessary right-of-ways and the project is more or less than estimated, the annual payment and the commodity based payment will be re-calculated.

n. The terms of the water agreement for the Water System between Fluvanna County and Aqua shall be 20 years, or such other term as may be mutually agreeable. At the end of 20 years, the agreement may be renewed or cancelled upon mutual agreement of the parties. Upon completion of the terms of the agreement, Fluvanna County may purchase the system from Aqua for the remaining net plant value, also called undepreciated asset cost, of the Water System.

**Description of the Sewer Project** Also, Aqua, through its affiliate, agrees to design, build, install, own, and operate a sewer collection system (hereinafter, the "Sewer System") for the Rt. 250 economic development corridor. The Sewer System shall discharge to the Virginia Department of Corrections ("DOC") facility near Zion Crossroads, subject to an

Agreement with the County and DOC that Fluvanna County will be responsible for negotiating. The DOC, and any other customers, will be billed a metered rate based on their water usage by the county using the available water meter reading data provided by Aqua. The Sewer System will generally consist of 15,000 feet of line to the DOC's wastewater plant. It is anticipated that the Sewer System will be a low pressure system that will require that all customers install, own, maintain, and replace an individual grinder pump at the individual customer's expense. Fluvanna County shall be responsible for a monthly payment to Aqua of \$7,908.00 (\$94,900.00 per year), subject to annual increases based upon the Consumer Price Index ("CPI") that governs the greater Charlottesville, Virginia area. This monthly minimum payment shall entitle Fluvanna County to 4,000 gallons per day of flow for no additional charge. For any usage over the 4,000 gallons per day, up to the DOC plant's capacity to accept flows estimated at 150,000 GPD, Fluvanna County shall be responsible for the payment of \$0.10 per thousand gallons. A 20 year agreement with a renewal option and similar terms outlined above shall be defined in a definitive sewer agreement.

**Work to be Performed by Fluvanna County:** Except to the extent described above, it is not anticipated that Fluvanna County will be performing any work. However, it will be essential that Fluvanna County enter into appropriate agreements with the Department of Corrections as previously described and that the County facilitate easement acquisition as follows:

**Easement Acquisition:** Aqua proposes to secure necessary easements or other property interests by directly negotiating with affected property owners through Aqua's own employees and/or agents. In the event that such good faith negotiations are unsuccessful, then Fluvanna County would exercise its powers under eminent domain to acquire such necessary easements or other property interests, and Aqua would be responsible for paying the costs of the same, provided that such costs are within the \$9,061,340.00 budgetary amount set forth in subparagraph (g) & (m) above. In the event that the estimated or actual costs of acquiring such easements or other property interests, including the costs associated with attorney fees, appraisal and other litigation related costs, cause the overall project budget to exceed the \$9,061,340.00 amount, then Aqua reserves the right to withdraw from the project without incurring further expenses.

**Required Permits & Approvals:** The following is a list of all federal, state and local permits and approvals required for the proposed project from local, state, or federal agencies and a projected schedule for obtaining such permits and approvals:

1. Virginia Department of Health (VDH), Construction Permit for Watermain Extension and Issuance of New PWSID for the Water System to Zion Crossroads, estimated schedule is four months to acquire permit.
2. VDOT Permit, for water and sewer lines to be installed along the public right of way on Rt.250, estimated four months.

3. Army Corps of Engineers & Department of Environmental Quality, Joint Permit, to Cross Rivanna River, estimated time four months.
4. Fluvanna County Erosion and Sediment Control Permit, estimated time, two months.
5. Private Easements, estimated time, six to twelve months.

**Anticipated Social, Economic and Environmental Impacts:** We believe that the proposed project provides the opportunity for enhanced social, economic and environmental gains for Fluvanna County. The Water System and the Sewer System offer significant social and economic opportunities for the County by providing a safe and reliable water source and wastewater treatment facility for economic development in and about the Zion Crossroads area. Such economic development will provide potential jobs for County citizens as well as provide enormous potential for an enhanced tax base for the County, including, real estate taxes, machinery and tools taxes and general business taxes. Both the Water System and the Sewer System will utilize state of the art equipment and methodologies that will more than adequately protect the environment. No adverse social, economic and environmental matters are anticipated.

**Proposed Schedule for Work:** For purposes of scheduling the project, it is anticipated that the date for initiating the project would be no later than 30 days after the definitive agreement is executed and the County indicates it is ready for Aqua to begin engineering and survey work, and that completion of the project is estimated to be completed within twelve to eighteen months, subject to easements and regulatory approvals.

**Risk Allocation and Liability for Work Completion:** The risks associated with the timely completion of the proposed project is minimal for both Fluvanna County and Aqua due to the fact that the County will control, through its negotiations with DOC, the timing of the completion of the project and the commencement of delivery of services. With this being the case, the County is in the position to fully protect both parties in this regard.

**Assumptions Relating to Ownership, Legal Liability & Operations:** For a summary of these matters, please refer to the above section entitled “**Description of the Water & Sewer Project.**”

**Phasing of Project Openings:** It is not presently anticipated that the project will be phased with respect to the completion dates and delivery of services. However, the timing of bringing the Water System and the Sewer System on line at varied periods is certainly feasible and is a matter for detailed discussion in the negotiation of any interim or comprehensive agreement between the parties. Initially, the water system will be built and serve DOC and the sewer system will likely be built later after appropriate customers have been identified by Fluvanna County.

**Assumptions and Contingencies:** The two critical assumptions and contingencies that affect the project are as follows: (1) Fluvanna County will need to negotiate an appropriate user agreement with DOC that is satisfactory to the County and Aqua; and, (2) The County will need to assist in the acquisition of all required easements that cannot be obtained by Aqua.

### **PROJECT FINANCING**

**Estimated Cost of Project & Cost Estimate Methodology:** We estimate that the Water System will cost approximately \$9,061,341.00, and that the Sewer System will cost approximately \$ 900,000.00. Our methodology in estimating costs is based upon the length of the lines and related facilities as compared to the costs that we have typically experienced on comparable projects.

Aqua intends upon financing the project by using its access to capital through public markets as well as using income from continuing operations. Aqua has no financing contingency for this project. As specified in the attached Annual Report, Aqua's 2011 annual revenues were 711 million dollars which is more than sufficient to meet the expenditures needed for this project.

- *Submit a plan for the development, financing, and operation of the project showing the anticipated schedule on which funds will be required. Describe the anticipated costs of and proposed sources and uses for such funds including any anticipated debt service costs. The operational plan should include appropriate staffing levels and associated costs. Include supporting due diligence studies, analyses, or reports.*

As funds are required for the project, Aqua will have those funds immediately available. Aqua has ample staffing and has no financing contingency for this project.

- *Include a list and discussion of assumptions underlying all major elements of the plan. Assumptions should include all significant fees associated with financing given the recommended financing approach. In addition complete disclosure of interest rate assumptions should be included. Any ongoing operational fees, if applicable, should also be disclosed as well as any assumptions with regard to increases in such fees.*

Aqua has no financing contingency for this project.

- *Identify the proposed risk factors and methods for dealing with these factors.*

Aqua has no financing contingency for this project.

- *Identify any local, state, or federal resources that the proposer contemplates requesting for the project. Describe the total commitment, if any, expected from governmental sources and the timing of any anticipated commitment. Such disclosure*

*should include any direct or indirect guarantees or pledges of the County's credit or revenue.*

There are no local, state, or federal resources required for this project. Aqua has no financing contingency for this project.

- *Identify the amounts and the terms and conditions for any revenue sources.*

Revenues from the utility system will be paid to the county according to rates which will be set by the county. Aqua has no financing contingency for this project.

- *Identify any aspect of the project that could disqualify the project from obtaining tax-exempt financing.*

No application for tax exempt financing is required. Aqua has no financing contingency for this project.

### **PROJECT BENEFIT & COMPATIBILITY**

**Beneficiaries of the Project:** We believe that the proposed project provides tremendous economic benefits for Fluvanna County, as well as the general region. The Water System and the Sewer System offer substantial economic benefits for the County by providing a safe and reliable water source and wastewater treatment facility for economic development in and about the Zion Crossroads area. Such economic development will provide potential jobs for County and area citizens as well as provide enormous potential for an enhanced tax base for the County, including, real estate taxes, machinery and tools taxes and general business taxes. Both the Water System and the Sewer System will utilize state of the art equipment and methodologies that will more than adequately provide the environment. The DOC also will benefit from the project through the availability of an improved wastewater system.

**Support for the Project:** It is anticipated that area property owners should strongly support the project in light of the fact that it will provide significant economic development opportunities for all the properties in the area through the provision of a reliable water and wastewater system. In addition, the State should be quite supportive due to the benefits accruing to the local DOC facility. At the present time, we are not aware of any opposition to the proposed project.

**Informing the General Public:** Aqua is committed to working with the County to have community informational meetings and other appropriate public notices to inform the general public and the business community of the nature of the project and its anticipated benefits.

**Benefits to County, Community & Region:** Please refer to “Support for Project” above. In addition, the Zion Crossroads area has a vast potential for commercial development. However, without the availability of water and sewer, the potential will not be fully realized. Our project provides reliable water and sewer service to this area of the County and will allow the properties to reach their highest and best use from a commercial development standpoint. The DOC also will benefit from the project as it will not have to replace its aging water plant and will be able to sell its excess sewer plant capacity to further enhance the cost efficiency of the facility to the benefit of Virginia.

**Compatibility with the County Comprehensive Plan:** The County Comprehensive Plan has the following vision for the Zion Crossroads area: “The Zion Crossroads area is the primary commercial node, with primarily retail and office uses, but also light industrial and mixed-use, mixed-income residential development.” (Page 136 of the County Comprehensive Plan.) The following uses are encouraged in this part of the County: Large/Medium/Small Commercial Offices; Civic; Multi-Family Residential; Regional Mixed-Use; Regional Employment; and, Neighborhood Mixed-Use. (See: “Summary of Community Planning Areas,” updated April 2012.) Our proposed project furthers this vision and each of the aforementioned uses by providing the water and sewer infrastructure needed to allow this area to reach its full potential. Currently, it is our understanding that neither the County capital improvements budget, nor any other government spending plan will provide for the implementation of this needed water and sewer infrastructure. Accordingly, our proposal under the PPEA will allow the County to attain the type of commercial growth envisioned by the Comprehensive Plan.

**Minority Owned Businesses:** Aqua is committed to encouraging opportunities for minority-owned businesses, woman-owned businesses, and small businesses in general, and is willing to work with the County to further these goals on the proposed project.

### **MISCELLANEOUS MATTERS**

**The County’s Plans for Development of Similar Facilities:** Aqua is not aware of any plans of development that Fluvanna County may have for projects similar to the one that we are now proposing. Accordingly, we believe that this project will provide the County with a unique opportunity to address its water and wastewater needs.

**Public Utility Crossings:** The following is a list of public utility facilities that will be crossed by the proposed project along with our plans to accommodate such crossings:

Directionally drilling under state waters requires a permit as identified in Required Permits and Approvals above. Additionally, new mains along public right of ways require VDOT permits.

**User Fees:** User fees and other service payments over the term of the anticipated interim or comprehensive agreement pursuant to Virginia Code §56-575.9 or 56-575.9:1 and

the methodology and circumstances for changes to such user fees and other service payments over time are as hereinbefore set forth.

In connection with your consideration of our proposal, we ask that the Board of Supervisors take the following actions:

- Please determine whether to accept our proposal in accordance with the requirements of Virginia Code §56-575.16. In so doing, we would appreciate it if you would take formal Board action to determine that the project (including both the Water System and Sewer System) serves a public purpose under the standards provided in Virginia Code §56-575.4(C).
- In the event that you wish to approve moving forward with this proposal, please establish a date for the commencement of activities related to the project pursuant to Virginia Code §56-575.4(F). Of course, you may extend such date from time to time, as needed.
- Please comply with the requirements under Virginia Code § 56-575.17 regarding the posting requirements, public comment and public access to the applicable records as the same relate to our conceptual proposal.

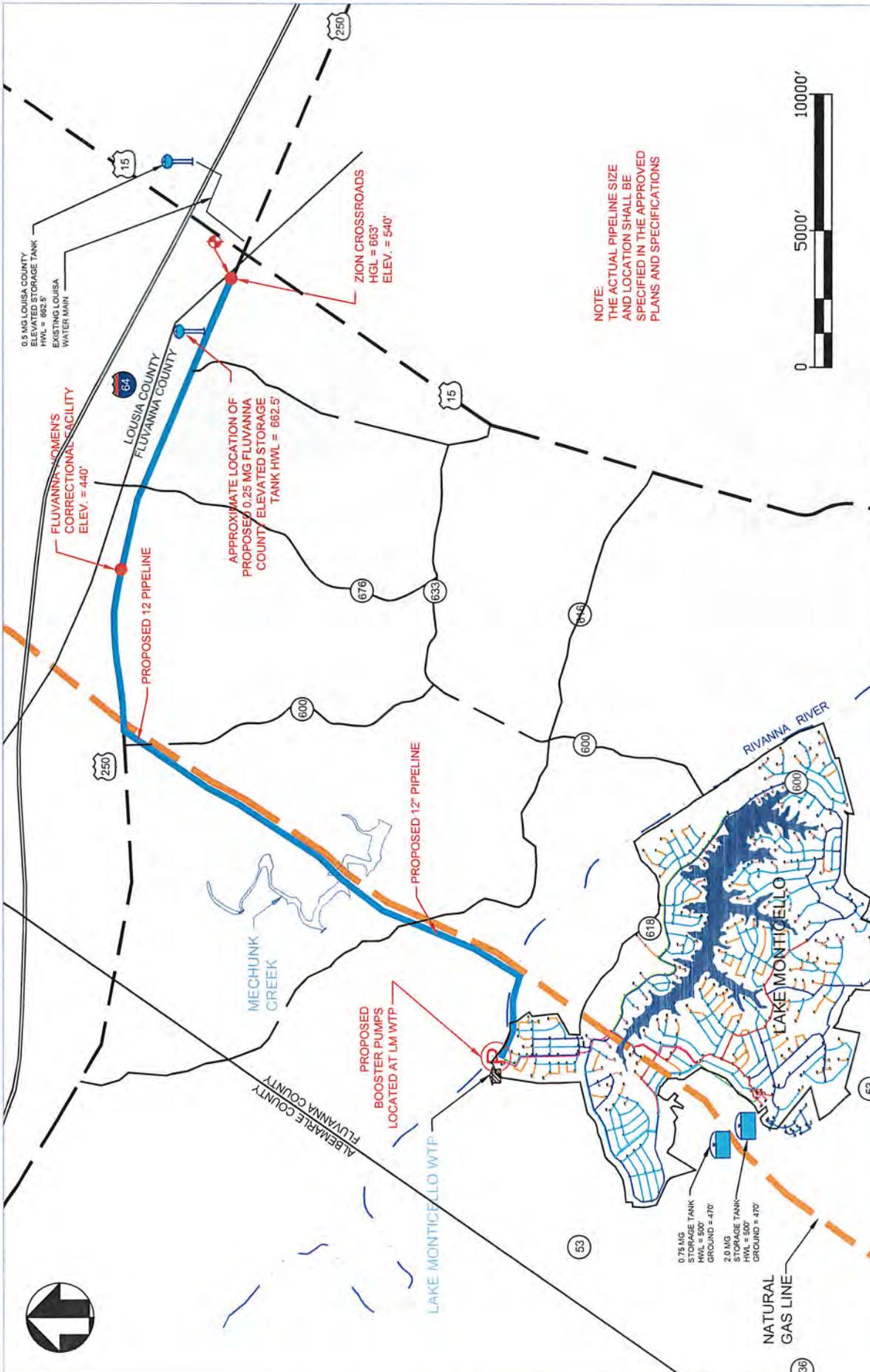
Please note that our proposal is subject to and conditioned upon our being able to successfully negotiate a mutually acceptable interim or comprehensive agreement with Fluvanna County under Virginia Code pursuant to §56-575.9.

We look forward to the opportunity of working with you and serving your community. Should you need any additional material or information, please contact either me or Clifton Parker, IV, P.E., of my staff at (804) 749-8868 x12 (office), (804) 310-0398 (cell), or CLParkerIV@aquaamerica.com.

Sincerely,

  
 Shannon V. Becker, Interim Vice  
 President & Chief Operating Officer  
 Aqua Virginia, Inc.

Cc: Shaun V. Kenney, Chairman  
 Fluvanna County Board of Supervisors



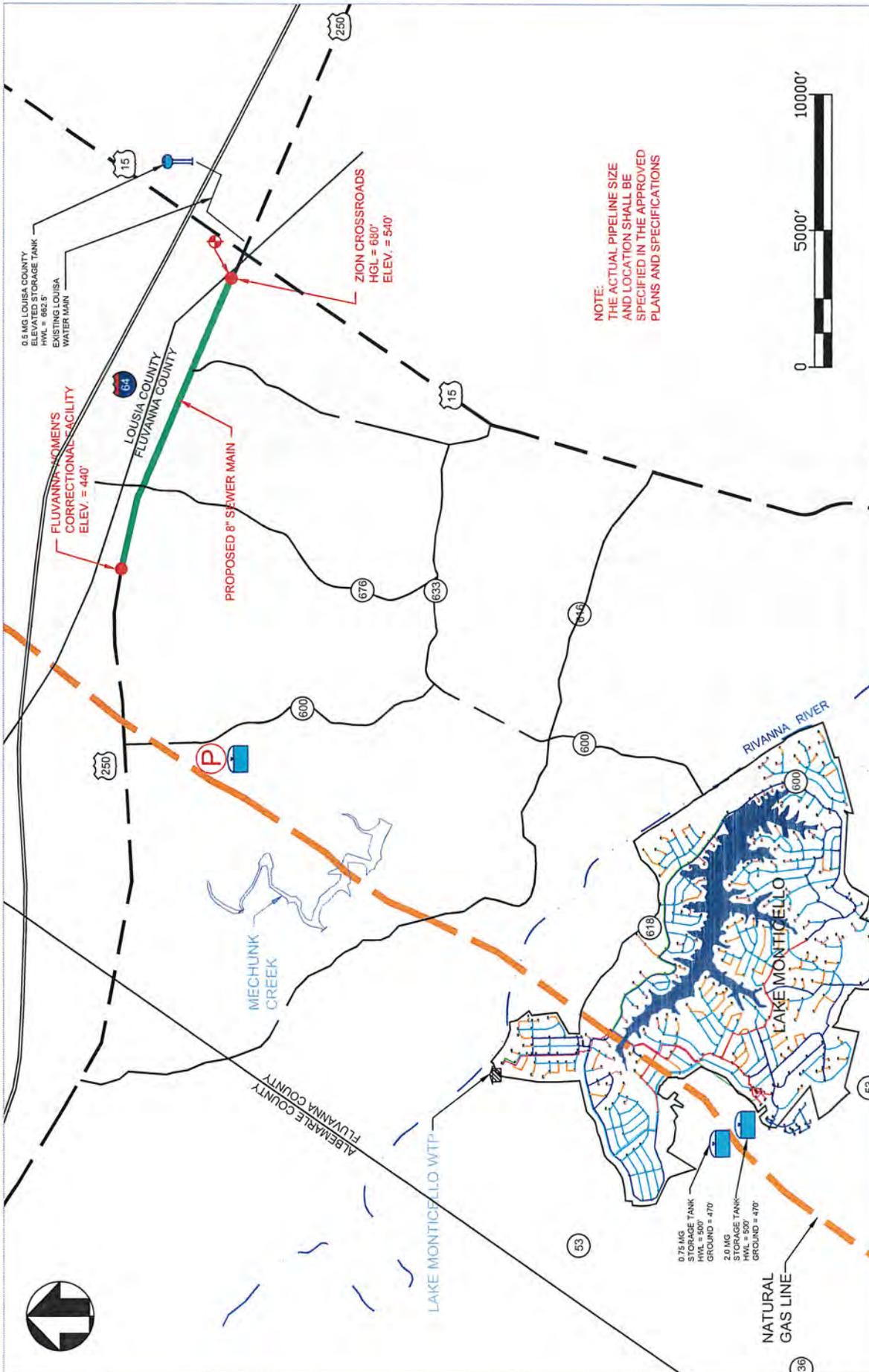
<p><b>THIS DRAWING IS THE PROPERTY OF AQUA VIRGINIA INC.</b></p> <p>THIS DRAWING IS SUBMITTED WITH THE AGREEMENT THAT IT IS NOT TO BE REPRODUCED, COPIED, OR LOANED IN PART OR WHOLE. IT IS NOT TO BE USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF AQUA VIRGINIA INC. ACCEPTANCE OF DRAWING WILL BE CONSTRUED AS AN AGREEMENT TO THE ABOVE.</p>		<p>DATE: 3.13.12</p> <p>SHEET: 1</p> <p>FILE NAME: FLUV. REG.</p>	<p>SCALE: 1"=5,000'</p> <p>DRN. BY: BAH</p> <p>MASTER NO.: -</p> <p>P.W.SLD. NO.: 2065480</p>
<p><b>AQUA VIRGINIA INC</b></p> <p>2414 GRANITE RIDGE ROAD ROCKVILLE, VA 23146 PH 804-749-8868</p>		<p><b>CONCEPT DRAWING, PROPOSED ROUTE FROM L.M. TO ZION CROSSROADS</b></p>	
<p>COMPANY: AQUA VIRGINIA, INC.</p> <p>LOCATION: FLUVANNA COUNTY, VA</p>		<p>LOCATION: FLUVANNA COUNTY, VA</p>	

**NEW MAINS**

— NEW WATER MAIN

— EXISTING GAS MAINS

— GAS MAIN



<b>AQUA VIRGINIA INC</b>		2414 GRANITE RIDGE ROAD ROCKVILLE, VA 23146		PH 804-749-8868	
CONCEPT DRAWING, PROPOSED ROUTE FROM PRISON TO ZION CROSSROADS					
COMPANY: AQUA VIRGINIA, INC.					
LOCATION: FLUVANNA COUNTY, VA					
FILE NAME	SHEET	DATE	SCALE	DRN. BY	MASTER NO.
FLUV. REG.	2	3.9.11	1"=5,000'	BAH	2065480

**EXISTING GAS MAINS**

— GAS MAIN

**NEW MAINS**

— NEW SEWER MAIN



⑥ JRWA Agreement

**AN AGREEMENT BETWEEN LOUISA COUNTY, VIRGINIA, FLUVANNA COUNTY,  
VIRGINIA, THE LOUISA COUNTY WATER AUTHORITY, AND THE JAMES RIVER  
WATER AUTHORITY REGARDING THE JAMES RIVER WATER PIPELINE**

Dated as of October 1, 2013

## AGREEMENT

This Agreement ("Agreement") is made and entered into this first day of October, 2013, by and between LOUISA COUNTY, VIRGINIA, a political subdivision of the Commonwealth of Virginia with powers vested in its Board of Supervisors ("Louisa"), FLUVANNA COUNTY, VIRGINIA, a political subdivision of the Commonwealth of Virginia with powers vested in its Board of Supervisors ("Fluvanna"), the LOUISA COUNTY WATER AUTHORITY, a political subdivision of the Commonwealth of Virginia and a water authority created under the Virginia Water And Waste Authorities Act with powers vested in its Board of Directors ("LCWA"), and the JAMES RIVER WATER AUTHORITY, a political subdivision of the Commonwealth of Virginia and a water authority created under the Virginia Water and Waste Authorities Act with powers vested in its Board ("JRWA").

WHEREAS, Louisa, Fluvanna, LCWA, and JRWA (each a "Party" and collectively "the Parties") mutually desire to enter into this Agreement for the purpose of delineating their respective rights and duties regarding a water pipeline (the "James River Pipeline" or "Pipeline") from a point on the James River near the Town of Columbia to a point in Louisa County;

WHEREAS, the Parties wish to work cooperatively to provide a reliable public water supply to the citizens of Louisa and Fluvanna Counties;

WHEREAS, the Parties recognize that the current Virginia Department of Environmental Quality ("DEQ") water withdrawal permit held by JRWA for the Brems Bluff area ("the Brems Bluff Permit") should be moved to an area near the Town of Columbia ("the Columbia Permit");

WHEREAS, the planning, design, acquisition of real property, and construction of the James River Pipeline will require, among other things, a great deal of planning, engineering work, and site acquisition;

WHEREAS, the cost of the James River Pipeline may run into the tens of millions of dollars, and bonds may be necessary; and

WHEREAS, LCWA and JRWA have authority to enter this Agreement with one another and with each of the Counties, under Va. Code §§ 15.2-5114(11), 15.2-5115, and 15.2-5147, Fluvanna and Louisa may enter into this agreement pursuant to Va. Code § 15.2-5147 as regarding the authorities, and with each other pursuant to Va. Code § 15.2-2148;

NOW THEREFORE, in consideration of \$10.00, cash in hand paid, as well as the mutual covenants, warranties, and agreements set forth herein, and intending to be legally bound, the Parties agree as follows:

### **1. Covenants Of The Parties**

Subject to the terms and conditions of this Agreement, the Parties mutually covenant and agree that:

1.1 Funding of Property Acquisition, Design, and Construction

(a) *JRWA.*

- i. JRWA agrees to fund, construct, operate, and maintain the James River intake and associated structures, the James River pipeline from the intake facility to a point near Route 6 west or north of the Columbia Community Planning Area (CPA), as the CPA is shown on the Fluvanna County Comprehensive Plan at the date of execution of this Agreement, as well as "T" connections and valves to allow Fluvanna and Louisa/LCWA connection to the JRWA system. The precise location of the point will be determined and agreed by the Parties at a later date based on engineering, planning, legal, and other considerations. JRWA will also bear the cost of the acquisition of all real property rights necessary to build the portion of the James River Pipeline that it will own, as laid out in Section 1.2(a), below.
- ii. JRWA may fund its portion of the cost of the activities set out in Section 1.1(a)(i), above, through any lawful means including by issuance of bonds, through a direct contribution from Fluvanna and Louisa, or charge a connection fee and/or periodic water reservation charge to Fluvanna and Louisa proportional to its flow reservation. The amount of the charge which will be fairly and reasonably calculated to amortize the cost of constructing, operating, and maintaining the portion of the James River Pipeline referenced in Section 1.1(a)(i), above. JRWA is encouraged to apply for grants, gifts, subsidized loans, and other sources of funding.
- iii. The fixed baseline operations and maintenance ("O&M") costs of JRWA property, incurred in the absence or regardless of flow, will be split evenly between Fluvanna and Louisa/LCWA. The variable O&M costs which can be attributed to water flows will be proportionally split based on actual water flow to each party, regardless of each party's actual customer location.

(b) *Fluvanna.*

- i. If, after the effective date of this Agreement but prior to the start of final design of the Pipeline, Fluvanna identifies a location on the Louisa portion of the James River Pipeline at which Fluvanna desires to make a "T" connection, Louisa agrees to construct such "T" connection and the necessary increased pipe capacity, including any associated design, construction, and acquisition costs, at no cost to Fluvanna. The precise location of the point will be determined and agreed by the Parties at a later date based on engineering, planning, legal, and other considerations.

- ii. In the event that Fluvanna decides to make additional connections to the James River Pipeline beyond the ones described in Sections 1.1(a)(i) and 1.1(b)(i) above, Fluvanna agrees to pay the incremental increase in costs of design, construction, and property acquisition up to the location of the additional "T" connections, plus the marginal cost of the additional "T" connections over the cost of a straight pipe, to that location.
  - iii. If, after design of the Pipeline has begun, Fluvanna identifies additional locations at which it desires to make a "T" connection to the James River Pipeline, Fluvanna agrees to pay Louisa/LCWA a fair and reasonable periodic reservation fee for the conveyance of the water to that point on the line. The amount of the fee will be fairly and reasonably calculated to amortize the incremental costs of design, construction, and property acquisition and ongoing O&M costs proportional to the flow capacity of the water reserved to Fluvanna.
- (c) *Louisa & LCWA.*
- i. Louisa and LCWA agree to fund, construct, operate, and maintain the James River Pipeline from a point near Route 6 west or north of the Columbia Community Planning Area (CPA), as the CPA is shown on the Fluvanna County Comprehensive Plan at the date of execution of this Agreement (*see* Section 1.1(a), above).
  - ii. Louisa and LCWA agree that they will fund and acquire all real property rights necessary to build the portion of the James River Pipeline that they will own, as laid out in Sections 1.2(a) and (b), below.
- (d) *Route of the Pipeline.* The Parties agree that Attachment A to this Agreement shows the general or approximate location of the James River Pipeline. The specific location will be determined by the Parties in accordance with engineering, planning, legal, and other considerations at a later date. The Party that is contemplated to have responsibility for O&M under this Agreement will have final responsibility for choosing the specific route of the Pipeline. The specific route must substantially conform to the general or approximate location shown on Attachment A unless otherwise specifically agreed by the Parties.

## 1.2 Ownership

- (a) *In General.* The Parties agree that they will each own such real and personal property as they each acquire or construct, subject to the limitations and specific procedures set forth in this subsection.
- (b) *Property of Louisa/LCWA.* All real and personal property to be acquired, constructed, operated, and maintained by either Louisa or LCWA under

this Agreement may be acquired, constructed, operated, maintained, and owned by either Louisa or LCWA under the terms of whatever operating agreement(s) may be operative between them.

### 1.3 Reservation of Capacity

- (a) *In General.* This Agreement contemplates that allocation of water between Fluvanna and Louisa will be in accordance with the needs of each county as established and agreed in the Columbia Permit water withdrawal application and DEQ's summary findings of need regarding the Columbia Permit.
- (b) *Temporary Reallocation.* Raw water capacity may be reallocated on a temporary basis. Costs and terms for such temporary reallocations will be fair and reasonable in accordance with law and will be determined by JRWA on request by any of the Parties.
- (c) *Bulk Purchases.* In lieu of or in addition to the procedures laid out in Section 1.2 above for allocation of ownership of the Pipeline, Fluvanna may purchase raw or finished water from Louisa/LCWA, or Louisa/LCWA may purchase raw or finished water from Fluvanna, at a mutually agreed bulk rate. Such rates will be fair and reasonable in accordance with law and will be determined by JRWA on request by any of the Parties.
- (d) *Future Expansion to Columbia Permit.* Unless otherwise agreed by the Parties, if at any time any Party seeks an expansion of the Columbia Permit, JRWA will make such application and be reimbursed by the Party or Parties seeking an expansion. The expansion in the withdrawal permitted by the Columbia Permit will then be reserved to the Party or Parties seeking the expansion.

### 1.4 Comprehensive Planning, Zoning, and Other Approvals.

- (a) *Fluvanna County Comprehensive Plan.* Fluvanna will take all necessary and legally permissible steps to determine consistency with and/or amend its Comprehensive Plan so as to make the James River Pipeline shown on Attachment A to this Agreement a feature whose general or approximate location, character, and extent are shown on its Comprehensive Plan in accordance with Va. Code Ann. § 15.2-2232 (2012). A determination of substantial conformance or appropriate amendments to the Fluvanna Comprehensive Plan will be completed by November 30, 2013.
- (b) *Fluvanna County Zoning Ordinance.* Fluvanna will take all necessary and legally permissible steps to ensure that the James River Pipeline and its facilities are and remain permitted under its Zoning Ordinance.

- (c) *Local Permits.* JRWA and Louisa/LCWA will obtain construction permits for their portions of the intake, supporting structures, and the James River Pipeline and will make all reasonable efforts to restore all property to its condition prior to the construction or maintenance of the Pipeline.
- (d) *Conservation Easements and Agricultural & Forestal Districts.* To the extent the James River Pipeline passes through an area that is subject to a County conservation easement or an agricultural and forestal district, all Parties agree to take all necessary and legally permissible steps necessary to permit the Pipeline in said area or district.
- (e) *Consent to Use of Property and Power of Eminent Domain.* By executing this Agreement, Fluvanna authorizes JRWA and LCWA to establish, construct, use and maintain the facilities contemplated in this Agreement, and to use the power of eminent domain within its jurisdiction for the purposes contemplated in this Agreement, as required by Va. Code Ann. § 15.2-5114(6) (2012).

#### 1.5 Cooperation on State and Federal Regulatory Approvals.

- (a) *Withdrawal Permit.* JRWA agrees that it will apply for, and pay all costs associated with acquiring, the Columbia Permit. The Parties mutually agree that in pursuit of such permit, JRWA may relinquish the Bremo Bluff Permit. The Parties agree to take all reasonable and legally permissible steps to support JRWA's application.
- (b) *State Board of Health.* The Parties mutually agree to take all necessary and legally permissible steps to obtain the permit from the State Board of Health required by Va. Code Ann. § 32.1-172 (2011).
- (c) *Further Cooperation.* The Parties mutually agree to take all necessary and legally permissible steps to obtain any other local, state, or federal approvals necessary for the James River Pipeline and related facilities.

#### 1.6 Litigation Cooperation.

- (a) *Third Parties.* Notwithstanding anything to the contrary contained in this Agreement, if any action or proceeding by any third party is instituted or threatened to be instituted challenging any transaction or action contemplated by this Agreement, the Parties will mutually use their reasonable best efforts to (i) contest, resist, or resolve any such proceeding or action and (ii) have vacated, lifted, reversed, or overturned any injunction adverse to the Parties or any one thereof resulting from such proceeding or action.
- (b) *Eminent Domain.* The Parties agree that they will mutually use all necessary and legally permissible means for the acquisition of property,

including, but not limited to, easement rights as contemplated in this Agreement at the lowest reasonable price.

- (c) *Obtaining Permits.* If litigation becomes reasonably necessary in order to obtain any of the permits necessary for the objects contemplated in this Agreement, the Parties will mutually use their reasonable best efforts and take all necessary and legally permissible steps to prosecute such litigation to a successful conclusion.

## 2. Representations And Warranties.

Each of the Parties represents and warranties to the other Parties as follows:

- (a) *Organization in Good Standing.* Each of the Parties is a political subdivision of the Commonwealth duly organized, validly existing, and in good standing under the laws of the Commonwealth of Virginia. In particular, and without limitation, Fluvanna, Louisa, and JRWA stipulate and agree that the rights and obligations of the Parties set forth in this Agreement are consistent with JRWA's purpose and powers as set forth in Paragraph 4 of its Articles of Incorporation.
- (b) *Authorization and Enforceability.* Each of the Parties has the full power and lawful authority, through its governing body, to execute this Agreement and perform its obligations contemplated herein and has duly and validly authorized the execution of this Agreement.

This Agreement constitutes the legal, valid, and binding obligation of each of the Parties, enforceable against each of the Parties in accordance with its terms, except as such enforceability may be limited by applicable laws relating to bankruptcy, insolvency, fraudulent conveyance, reorganization, or affecting creditor's rights generally.

- (c) *Noncontravention.* The Parties' performance of the obligations contemplated by this Agreement will not (i) require any further approvals or consents from any third party other than those approvals or consents mandated by law, ordinance, or regulation in effect as of the date of this Agreement; (ii) violate any law, ordinance, or regulation; or (iii) conflict with or result in a breach of, or constitute a default under, any contract, lease, permit, or other agreement or commitment to which any of the Parties is a party; except where the approvals, consents, violations, or conflicts would have no effect on the ability of any Party to fully consummate all terms of this Agreement.
- (d) *Budgets.* Each of the Parties is responsible for keeping its own budgets relating to this Agreement.

### 3. Termination.

3.1 This Agreement may be terminated only as follows:

- (a) By mutual written consent of all Parties;
- (b) By any Party, if any state or federal approval necessary to its performance under the terms of this Agreement is refused by a final decision not subject to appeal following diligent pursuit thereof; or
- (c) By any Party, upon a material breach by any other Party of any covenant, warranty, representation, agreement, or provisions of this Agreement that has not been (i) cured within 30 days after a non-breaching Party gives written notices of said breach to the breaching Party; or (ii) waived by the non-breaching Party.

3.2 The effect of termination of this Agreement will be as follows:

- (a) Each Party's right of termination under Section 3.1 of this Agreement is in addition to any other rights it may have under this Agreement or otherwise, and the exercise of a right of termination will not be an election of remedies.
- (b) If this Agreement is terminated pursuant to Section 3.1 of this Agreement, all further obligations of the Parties under this Agreement will terminate.

### 4. Remedies.

4.1 Specific Performance.

- (a) The Parties agree that irreparable damage would occur in the event that any of the provisions of this Agreement is not performed in accordance with its specific terms or is otherwise breached.
- (b) The Parties agree that, in the event that there is a disagreement between them regarding compliance with the terms and conditions of this Agreement, prior to filing any suit the disagreement will be submitted by the Parties to a neutral mediator for at least 60 days for assistance in reaching a resolution of the disagreement satisfactory to all Parties.
- (c) Each Party agrees that, in the event of any breach or threatened breach by any other Party of any covenant, warranty, or obligation contained in this agreement, the non-breaching Parties will be entitled (in addition to any other remedy that may be available, whether in law or equity) to seek and obtain (i) a decree or order of specific performance to enforce the observation and performance of such covenant, warranty, or obligation, and (ii) an injunction restraining such breach or threatened breach.

## 5. Miscellaneous.

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- 5.1 Entire Agreement. This Agreement constitutes the entire agreement between the Parties concerning its subject matter and supersedes all prior oral or written agreements, understandings, representations, and warranties, as well as courses of dealing among the Parties.
- 5.2 Amendment. This Agreement may be amended or modified only by a writing executed by all Parties.
- 5.3 Extension or Waiver of Performance. The Parties may jointly extend the time or waive the performance of any of the obligations of any other, waive any inaccuracies in the warranties or representations made by the other, or waive compliance with any of the covenants, conditions, or agreements contained in this Agreement, provided that any such extension or waiver must be in writing and signed by all other Parties in the case of a waiver, or by all Parties in the case of an extension.
- 5.4 Assignment or Delegation. No Party shall assign, delegate, or otherwise transfer any of its duties, rights, or obligations under this Agreement without the prior written consent of all other Parties.
- 5.5 Successors and Assigns; Binding Effect. This Agreement is binding on, and inures to the benefit of, the Parties and their respective successors and permitted assigns.
- 5.6 Governing Law. This Agreement is to be governed and construed under the laws of the Commonwealth of Virginia.
- 5.7 Notices. All notices provided in this Agreement must be in writing, and may be delivered in person; sent by U.S. registered and certified mail, return receipt requested; or sent by Federal Express or other nationally-recognized overnight courier from which a receipt may be obtained to the chief administrative officer and chief legal counsel of each of the other Parties.
- 5.8 Construction. In the event of any ambiguity or question of intent or interpretation arises, this Agreement will be construed as if drafted jointly by the Parties, and no presumption or burden of proof shall arise favoring or disfavoring any Party by virtue of the authorship of any of the provisions of this Agreement.

Any reference to any federal, state, local, or foreign statute shall be deemed to refer to all statutes, rules, and regulations referenced therein or promulgated thereunder, unless the context requires otherwise.

Words used herein, regardless of the number and gender specifically used, shall be deemed and construed to include any other number, singular or plural, and any other gender, masculine, feminine, or neuter, as the context may require. The word "including" means included, without limitation.

- 5.9 Remedies. The remedies afforded in this Agreement are cumulative to each other and to all other remedies provided by law.
- 5.10 Time of the Essence. Where a specific date or time is stated in this Agreement, time is of the essence of this Agreement.
- 5.11 Waiver. Except as otherwise provided herein, no delay of or omission in the exercise of any right, power or remedy accruing to any Party as a result of any breach or default by any other Party under this Agreement will impair any such right, power, or remedy; nor shall it be construed as a waiver of or acquiescence in such breach or default, or any similar breach or default occurring later; nor shall any waiver of a single breach or default be deemed a waiver of any other breach or default occurring before or after the waiver.
- 5.12 Jurisdiction and Venue. Each Party irrevocably submits to the exclusive jurisdiction of the Circuit Courts for Louisa County and Fluvanna County, at the option of the plaintiff in such suit, and the appellate courts therefrom, for the purposes of any suit or action arising out of this Agreement.
- 5.13 Third-Party Beneficiaries. Nothing herein expressed or implied is intended or should be construed to confer on or give to any person other than the Parties any rights or remedies under or by reason of this Agreement.
- 5.14 Counterparts. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original copy of this Agreement and all of which, when taken together, shall be deemed to constitute one and the same agreement.

[Signatures Appear on Next Page]

FOR LOUISA COUNTY, VIRGINIA:

[Signature] Date: Oct 1, 2013  
Chairman, Board of Supervisors

FOR FLUVANNA COUNTY, VIRGINIA:

[Signature] Date: 02 Oct 2013  
Chairman, Board of Supervisors

FOR THE LOUISA COUNTY WATER  
AUTHORITY:

[Signature] Date: 10.9.13  
Chairman, Board of Directors

FOR THE JAMES RIVER WATER  
AUTHORITY:

[Signature] Date: 15 Oct 13  
Chairman, Board of Directors





7

James River  
Withdrawal Permit - JRWA



# COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY  
Street address: 629 East Main Street, Richmond, Virginia 23219  
Mailing address: P.O. Box 1105, Richmond, Virginia 23218  
TDD (804) 698-4021  
www.deq.virginia.gov

L. Preston Bryant, Jr.  
Secretary of Natural Resources

David K. Paylor  
Director  
  
(804) 698-4000  
1-800-592-5482

VWP Individual Permit Number: 04-0805  
Effective Date: June 9, 2006  
Minor Modification Date: January 8, 2010  
Expiration Date: June 8, 2021

## VIRGINIA WATER PROTECTION PERMIT ISSUED AND MODIFIED PURSUANT TO THE STATE WATER CONTROL LAW AND SECTION 401 OF THE CLEAN WATER ACT

Based upon an examination of the information submitted by the owner, and in compliance with § 401 of the Clean Water Act as amended (33 USC 1341) and the State Water Control Law and regulations adopted pursuant thereto, the State Water Control Board (board) has determined that there is a reasonable assurance that the activity authorized by this permit, if conducted in accordance with the conditions set forth herein, will protect instream beneficial uses and will not violate applicable water quality standards. The board finds that the effect of the impact, together with other existing or proposed impacts to surface waters, will not cause or contribute to a significant impairment to state waters or fish and wildlife resources.

**Permittee:** James River Water Authority

**Address:** Fluvanna County Office Building, Main Street, Palmyra, VA 22963

**Activity Location:** James River in Fluvanna County 2000 feet downstream of Route 15.

**Activity Description:** The construction and operation of a municipal water supply intake.

The permitted activity shall be in accordance with this Permit Cover Page, Part I - Special Conditions, Attachment A, and Part II - General Conditions.

Allen Krinsky  
Director, Water Division

January 8, 2010  
Date

VWP Individual Permit Minor Modification No. 04-0805  
Part I - Special Conditions  
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### **Authorized Activities and Permit Term**

#### *A. Authorized Activities*

This permit authorizes the following impacts as indicated in the application dated April 2, 2004, received by DEQ on April 9, 2004, and deemed complete by DEQ on December 15, 2005. The permit authorization and conditions are also based on additional submittals approved by DEQ.

1. The construction and operation of a municipal water supply intake.
2. Utility line crossings, if any, associated with piping the water from the intake to its connections with the East Coast Transport, Inc. pipeline in Fluvanna County.
3. The temporary use of mechanical equipment in surface waters when conducted according to the permit conditions C.12, C.13, and C.14.

#### *B. Permit Term*

This permit is valid for 15 years from the date of issuance. If water withdrawals continue after the end of the permit term, a new permit will be required.

### **Project Construction at Impact Site**

#### *C. Standard Project Conditions*

1. The activities authorized by this permit shall be executed in such a manner that any impacts to stream beneficial uses are minimized. As defined in § 62.1-10(b) of the Code, "beneficial use" means both instream and offstream uses. Instream beneficial uses include, but are not limited to, the protection of fish and wildlife habitat, maintenance of waste assimilation, recreation, navigation, and cultural and aesthetic values. Offstream beneficial uses include, but are not limited to, domestic (including public water supply), agricultural, electric power generation, commercial, and industrial uses. Public water supply uses for human consumption shall be considered the highest priority.
2. No activity shall substantially disrupt the movement of aquatic life indigenous to the water body, including those species that normally migrate through the area, unless the primary purpose of the activity is to impound water.

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## Part I - Special Conditions

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3. At crossings of streams, pipes and culverts less than 24 inches in diameter shall be countersunk a minimum of three inches, and pipes and culverts greater than 24 inches in diameter shall be countersunk a minimum of six inches to provide for the re-establishment of a natural stream bottom and to maintain a low flow channel. For multiple-celled culverts, only the bottoms of those cells situated below the limits of ordinary high water shall be countersunk. To the greatest extent practicable, other cells, pipes, or culverts shall be elevated to provide a natural distribution of flood flows. The requirement to countersink shall not apply to extensions or maintenance of existing culverts that are not countersunk, to floodplain culverts being placed above ordinary high water, to culverts being placed on bedrock, or to culverts required to be placed on slopes 5% or greater.
4. Flows downstream of the project area shall be maintained to protect all uses.
5. No activity shall cause more than minimal adverse effect on navigation, and no activity shall block more than half of the width of the stream at any given time.
6. The activity shall not impede the passage of normal or expected high flows, and any associated structure shall withstand expected high flows.
7. Activities shall be conducted in accordance with any Time-of-Year restriction(s) as recommended by the Department of Game and Inland Fisheries or the Virginia Marine Resources Commission. The permittee shall retain a copy of the agency correspondence concerning the Time-of-Year restriction(s), or the lack thereof, for the duration of the construction phase of the project.
8. All excavation, dredging, or filling in surface waters shall be accomplished in a manner that minimizes bottom disturbance and turbidity.
9. All in-stream activities shall be conducted during low-flow conditions whenever practicable.
10. All construction, construction access, and demolition activities associated with this project shall be accomplished in a manner that minimizes construction materials or waste materials from entering surface waters, unless authorized by this permit. Wet, excess, or waste concrete shall be prohibited from entering surface waters.
11. All fill material placed in surface waters shall be clean and free of contaminants in toxic concentrations or amounts in accordance with all applicable laws and regulations.

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## Part I - Special Conditions

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12. Measures shall be employed at all times to prevent and contain spills of fuels, lubricants, or other pollutants into surface waters.
13. Machinery or heavy equipment in temporarily impacted wetlands shall be placed on mats or geotextile fabric, or other suitable means shall be implemented, to minimize soil disturbance to the maximum extent practical. Mats, fabrics, or other measures shall be removed as soon as the work is complete in the temporarily impacted wetland.
14. Heavy equipment is authorized for use within the stream channel during project construction or stream restoration activities when site conditions prohibit access from the streambank. The equipment shall be stationed on cobble bars and the activities conducted in the dry or during low flow conditions, whenever possible.
15. Temporary disturbances to wetlands, stream channels, and/or stream banks during project construction activities shall be avoided and minimized to the maximum extent practicable.
16. All temporarily impacted streams and stream banks shall be restored to their original elevations and contours within **30 calendar days** following the construction at that stream segment, and the banks shall be seeded or planted with the same vegetative cover type originally present along the banks, including supplemental erosion control grasses if necessary but not including invasive species identified on DCR's Invasive Alien Plant Species of Virginia list. The permittee shall take all appropriate measures to promote and maintain the revegetation of temporarily disturbed surface waters through the **second year post-disturbance**.
17. All materials (including fill, construction debris, excavated materials, and woody materials, that are temporarily placed in wetlands, in stream channels, or on stream banks) shall be placed on mats or geotextile fabric, shall be immediately stabilized to prevent the material or leachate from entering surface waters, and shall be entirely removed within **30 calendar days** following completion of that construction activity. After removal, disturbed areas shall be returned to original contours, shall be stabilized, and shall be restored to the original vegetated state within **30 calendar days**. The permittee shall take all appropriate measures to promote and maintain the revegetation of temporarily disturbed surface waters through the **second year post-disturbance**.
18. Temporary in-stream construction features such as cofferdams shall be made of non-erodible materials.

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19. Virginia Water Quality Standards shall not be violated in any surface waters as a result of the project activities.
20. All required notifications and submittals shall be submitted to the DEQ office stated below, to the attention of the VWP permit manager, unless directed in writing by DEQ subsequent to the issuance of this permit: DEQ, Office of Wetlands and Water Protection, P.O. Box 10009, Richmond, VA 23240
21. All reports required by this permit and other information requested by DEQ shall be signed by the permittee or a person acting in the permittee's behalf, with the authority to bind the permittee. A person is a duly authorized representative only if *both* criteria below are met. If a representative authorization is no longer valid because of a change in responsibility for the overall operation of the facility, a new authorization shall be immediately submitted to DEQ.
  - a. The authorization is made in writing by the permittee.
  - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, superintendent, or position of equivalent responsibility. A duly authorized representative may thus be either a named individual or any individual occupying a named position.
22. All submittals shall contain the following signed certification statement:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."
23. Any fish kills or spills of fuels or oils shall be reported to DEQ immediately upon discovery at (804) 527-5021. If DEQ cannot be reached, the spill shall be reported to the Virginia Department of Emergency Management (DEM) at 1-800-468-8892 or the National Response Center (NRC) at 1-800-424-8802.
24. DEQ shall be notified in writing within **24 hours or as soon as possible on the next business day** when potential environmentally threatening conditions are encountered which require debris removal or involve potentially toxic substances. Measures to

## VWP Individual Permit Minor Modification No. 04-0805

## Part I - Special Conditions

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remove the obstruction, material, or toxic substance or to change the location of any structure are prohibited until approved by DEQ.

25. The permittee shall notify the DEQ of any additional impacts to surface waters, including wetlands; of any modifications of the intake structure; and of any change to the type of surface water impacts associated with this project. Any additional impacts, modifications, or changes shall be subject to individual permit review and/or modification of this permit. Compensation may be required.

*D. Projects Involving Stream Modifications, Including Intake/Outfall Structures*

1. Any exposed slopes or streambanks shall be stabilized immediately upon completion of work in each impact area. Methods and materials for stabilization shall be in accordance with the Virginia Erosion and Sediment Control Handbook, Third Edition, 1992, or the most recent version in effect at the time of construction.
2. Redistribution of existing stream substrate for erosion control purposes is prohibited.
3. Material removed from the stream bottom shall not be deposited into surface waters unless otherwise authorized as fill material in this permit.
4. Riprap aprons shall be designed in accordance with Virginia Erosion and Sediment Control Handbook, Third Edition, 1992, or the most recent version in effect at the time of construction.
5. For streambank protection activities, structures and backfill shall be placed as close to the streambank as practical, while still avoiding and minimizing impacts to vegetated wetlands to the maximum extent practical. No material shall be placed in excess of the minimum necessary for erosion protection.
6. Asphalt and materials containing asphalt or other toxic substances shall not be used in the construction of submerged sills, breakwaters, dams, or weirs.

*E. Projects Involving Utilities*

1. All utility line work in surface waters shall be performed in a manner that minimizes disturbance in each area. Temporarily disturbed surface waters shall be restored in accordance with Part I. C.16, C.17, and C.18, unless otherwise authorized by this permit.

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2. Material resulting from trench excavation may be temporarily sidecast into wetlands not to exceed a total of 90 calendar days, provided the material is not placed in a manner such that it is dispersed by currents or other forces.
3. The trench for a utility line cannot be constructed in a manner that drains wetlands (e.g., backfilling with extensive gravel layers creating a French drain effect).

F. *Projects Involving Surface Water Withdrawals*

1. The maximum daily water withdrawal shall not exceed 5.7 million gallons.
2. The maximum annual water withdrawal shall not exceed 1.1 billion gallons.
3. The maximum annual withdrawal limit in condition F.2 shall be reduced by 54.75 million gallons if the Department of Corrections renews Virginia Water Protection Permit Number 95-0957 to withdraw water from Mechunk Creek. The maximum annual water withdrawal limit in condition F.2 shall be reduced by 460 million gallons if the County of Louisa constructs an alternative water supply system to provide water to the Zions Crossroads with water from Bowlers Mill Reservoir.
4. The permittee may not sell or provide water to East Coast Transport, Inc., to Central Virginia Water Storage Corp., to the Tenaska Virginia Partners power plant in Fluvanna near Cunningham or to the yet to be built Tenaska Virginia Partners II power plant in Buckingham. These facilities have their own water allocation under permit 01-1282 with different minimum instream flowby requirements.
5. To prevent the impingement and entrainment of fish eggs, larvae, and other aquatic life, the intake screens shall be so designed that screen openings are not larger than 1 millimeter in width and the screen face intake velocities are not greater than 0.25 feet per second.
6. **Prior to** impacting any surface waters as authorized by this permit, the applicant shall submit a water supply conservation plans that applies to the service areas being supplied by the water withdrawn under this permit. The plan shall include voluntary water conservation measures and mandatory water conservation measures.
7. In the event that the Governor or the Virginia Drought Coordinator declares a drought emergency in any *Drought Evaluation Region that contains Fluvanna or Louisa Counties*, the permittee shall implement the mandatory conservation measures, as detailed in Attachment A of this permit. The permittee shall be responsible for determining when drought emergencies are declared. DEQ may

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## Part I - Special Conditions

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require documentation that mandatory conservation measures were implemented during declared drought emergencies.

8. In addition to water conservation emergencies declared by the governor or his designee, between July 1<sup>st</sup> and October 31<sup>st</sup>, the permittee shall implement voluntary conservation when the 14-day rolling average of stream flow of the James River at Scottsville gage drops below 822 cfs; once the 14-day rolling average stream flow drops below 568 cfs, the permittee shall implement mandatory water conservation measures. Between November 1<sup>st</sup> and June 30<sup>th</sup>, the permittee shall implement voluntary conservation when the 14-day rolling average of stream flow of the James River at Scottsville gage drops below 1161 cfs; once the 14-day rolling average stream flow drops below 856 cfs, the permittee shall implement mandatory water conservation measures.
9. The permittee shall monitor withdrawals from the James River on a daily basis to confirm that the withdrawals are in compliance with special conditions of this permit.
10. Water withdrawal monitoring and reporting activities shall comply with this section, Part I.C, and Part II. All records and information that result from the monitoring and reporting activities required by this permit, including any records of maintenance activities to the withdrawal system, shall be retained for the life of the permit. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or as requested by the State Water Control Board.
11. Beginning in the first year after water withdrawals take place the permittee shall prepare an annual report demonstrating compliance with the water withdrawal and water conservation conditions of this permit. The report shall include for each day, the date, the time, (the streamflow reading shall be taken at approximately the same time each day using publicly available data), the flow of the James River at Scottsville, the 14 day rolling average of the flow of the James River at Scottsville and the amount of water withdrawn. The report shall sum and report the total amount of water withdrawn for the entire year. The report shall indicate what dates, if any, that voluntary and mandatory water conservation measures were in effect. The report is due to the address listed in condition C.20 by January 31<sup>st</sup> of the following year.

Within 90 days of permit issuance, the permittee shall provide to DEQ a monitoring plan that describes the following:

- a. What measures Fluvanna will put in place to estimate the streamflow of the James River at Scottsville in the event the James River at Scottsville gage is damaged, disable or discontinued.

VWP Individual Permit Minor Modification No. 04-0805

Part I - Special Conditions

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- b. What correlation coefficients or equations and gages the permittee will use as a surrogate for the Scottsville gage.
12. *For all permittees whose average daily withdrawal during any single month exceeds 10,000 gallons per day, the water withdrawals shall be reported to DEQ by **January 31st** of the next year, as required under State Water Control Board (SWCB) Water Withdrawal Reporting Regulation (9 VAC 25-200 et seq.). The annual monitoring report shall contain the following information: the permittee's name and address, the sources and locations of water withdrawal, the cumulative volume of water withdrawn each month of the calendar year, the maximum day withdrawal and the month in which it occurred, and the method of withdrawal measurement. For permittees subject to the Virginia Department of Health (VDH) Waterworks Regulations, the annual reports to DEQ may include, as an alternative, the source and location of water withdrawals, the type of use for the water withdrawn, and reference to the reports filed with VDH that contain the monthly withdrawal data.*



## **APPENDIX B – Previous Studies (key sections)**

- 1. Zion Crossroads Guidebook by TJPDC (pages 1, 4, 7,16, 17, 18)**
- 2. PER for James River Water System – Timmons 2009 (Section 3 – pages 1-11, Section 4 (pages related to Pleasant Grove site R-5), Section 5 (pages 1-4), Section 7 (pages 1-4))**
- 3. Zion Crossroads Area Master Plan, 2004 by Dewberry – Louisa County**



# Zion Crossroads Guidebook

Fluvanna County, Virginia  
August, 2013



Prepared by the Thomas Jefferson  
Planning District Commission



Thomas Jefferson  
Planning District Commission

“Zion Crossroads is the gateway to the heart of Fluvanna County, and should be enhanced to provide a scenic, rural welcome to residents and tourists while at the same time it develops as an employment, retail, commercial, and recreation destination for both county residents and travelers en route to other places along Routes 64, 15, and 250.”

– Fluvanna Comprehensive Plan 2009

The purpose of the Zion Crossroads Guidebook is to serve as a resource for Fluvanna County citizens, property owners, builders and developers who are involved in planning, designing, and building projects within Zion Crossroads. This area is envisioned as the County’s primary regional economic development engine, where regional employment and mixed-use development can occur side by side. This template encourages the efficient use of developable land and provides direction to developers and staff to implement the County’s goals in regards to Zion Crossroads.

▶ HOW TO READ THIS PLAN

**for Land Developers**

Zion Crossroads is brimming with potential for new growth. This template assists developers who are considering projects within Zion Crossroads by communicating Fluvanna County’s vision for the area. This establishes expectations before a development review process is initiated, to ensure that any future endeavors are both cost-effective and beneficial to the citizens of Fluvanna County.

**for Policy Makers**

The Zion Crossroads Guidebook builds upon previous public processes and plans, and it articulates a land use and design vision specific to the Zion Crossroads area. Fluvanna County elected officials and staff may reference this template when deciding upon implementation tools to ensure the health, safety, and welfare of the community.

**for Citizens**

Successful planning depends upon an active citizenry. By presenting a potential outcome for Zion Crossroads, this template may inspire individual residents of Fluvanna County, and of the Zion Crossroads area in particular, to share their own ideas for their community.

Any new direction for Zion Crossroads must fully take into account what is already there, what infrastructure is available or planned, how the land is being used, and what trends are currently underway.

- An interchange of I-64 creates a vital connection for Zion Crossroads to the national **transportation system**, and US routes 15 and 250 both serve the area as well.
- A total of **155 housing units** were counted in Fluvanna County's portion of the Zion Crossroads area in the 2010 Census. This was only a marginal increase from the 131 units counted in 2000.
- In 2009, Fluvanna County's portion of Zion Crossroads contained approximately 26,300 sq. ft. of **commercial space** and 485,202 sq. ft. of **industrial space**. This represents an estimated 301 jobs in the area. There was substantial growth of industry between 2002 and 2009.
- Approximately 43% of all land in the Zion Crossroads Community Planning Area is identified as **vacant**, and 7% of the land area is identified as **agricultural only**. An additional 26% of the land area has another existing use but may be suitable for **redevelopment** because the land value of the parcel exceeds the improvement value.
- The 2013 **assessed value** of all land and improvements in the area is \$180,994,000. The assessed property values decreased by 1.5% between 2007 and 2013, although the decline was less extreme than that of the County as a whole.
- The Zion Crossroads area straddles the Fluvanna-Louisa county border. The Louisa side experienced significant commercial and residential growth over the last decade. The area increased from almost no commercial to over a million sq. ft. and almost tripled the number of housing units.
- Most of the land (98%) in the area is **currently zoned** for agricultural use. Based on current residential allowances, a total of 2,977 homes could be built on this land by-right.
- **Public water and sewer capacity** is under consideration for the Fluvanna County portion of Zion Crossroads, and the County is currently weighing options for providing such service to the area.
- The Fluvanna Correctional Center for Women is a significant use within the Community Planning Area. The center has an average daily population of 1,200.

### Zion Crossroads Urban Development Area

This Guidebook pertains to the Zion Crossroads Urban Development Area, as designated in the 2009 Fluvanna County Comprehensive Plan.

An Urban Development Area (UDA) is defined by the Code of Virginia as an area that is appropriate for higher-density development due to its proximity to transportation facilities, the availability of a public or community water and sewer system, or a developed area wherein redevelopment and infill are feasible. By allowing more intense development in UDAs, Fluvanna County can provide public services more efficiently and preserve its rural and agricultural landscape by reducing development pressures on these areas. UDAs also include design features tailored to compact, mixed-use areas, known broadly as Traditional Neighborhood Development.

Zion Crossroads is currently designated as the County's only UDA. This area is intended to absorb most of the County's growth over the next ten to twenty years, as intended in the state code. The Zion Crossroads UDA was selected because its proximity to Interstate 64 and Routes 15 and 250, and to Louisa's most intensive growth area.

### Zion Crossroads Community Planning Area

The Community Planning Areas (CPA) are defined in the Fluvanna County Comprehensive Plan as areas designated to receive higher densities of residential and commercial growth. The plan sets the goal of dispersing 70% of all new development to the five CPAs of the County. Although the function of CPAs is similar to that of UDAs, they are intended to contain less density and public services.

Zion Crossroads is Fluvanna County's largest CPA, and the County places a special emphasis on commercial and industrial growth in this area.

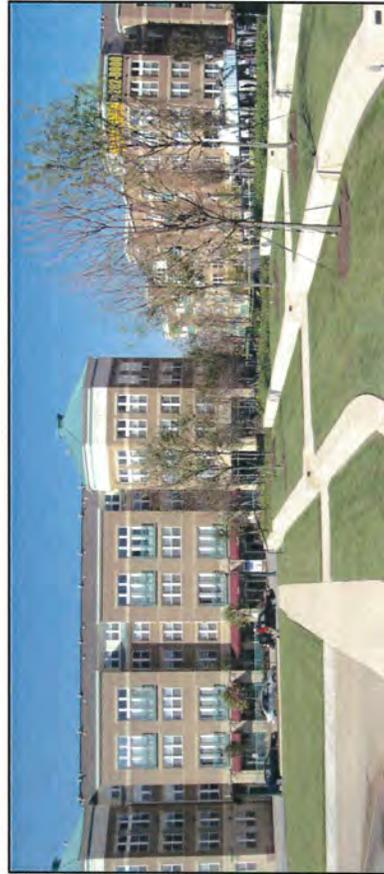
Zion Crossroads Urban Development Area (UDA)



## ▶ T4: MIXED USE VILLAGE

The Zion Crossroads *Mixed Use Villages* are vibrant places to live and work within the Zion Crossroads Urban Development Area, as designated by the Comprehensive Plan. The intensity of commercial and cultural activity is less than that of the Town Center, but the neighborhood remains closely tied to the center:

1. A variety of housing types integrated with each other, including multifamily structures, townhomes, duplexes, and single-family homes.
2. Spacious and well-designed public spaces for recreation, aesthetic appeal, and stormwater management.
3. Smaller scale commercial and industrial uses near major roadway corridors, connected to but somewhat removed from residential areas.
4. Complete streets throughout, including sidewalks, landscaping, narrower vehicle lanes, and on-street parking.
5. Residential gross densities of between 8 and 12 dwelling units per acre (as pictured).
6. Neighborhood-serving retail and restaurants within closer proximity to residential areas.



Market Street Condos  
Reston, VA

Reston-Condos.com



New Town  
Williamsburg, VA

Williamsburg Real Estate

► Mix of Uses

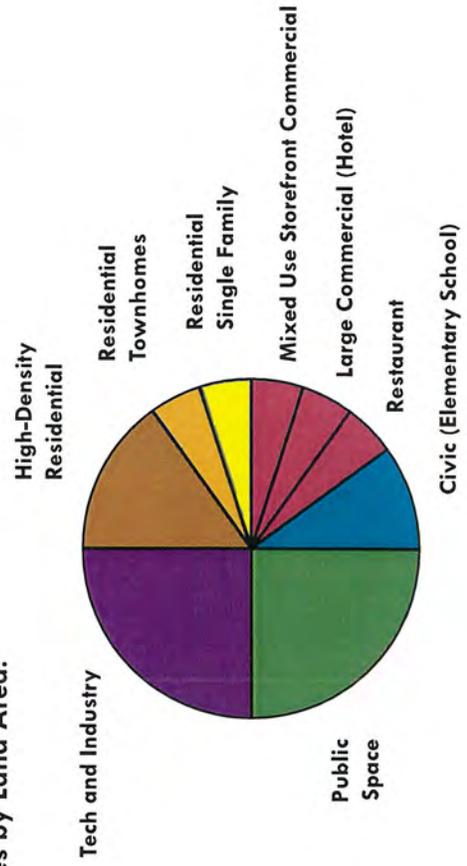
Civic (School)



Commercial/mixed use structures are concentrated along the main streets with easy pedestrian access. Retail, restaurants and other uses needing exposure occupy ground floors, while offices and residences are above. General civic uses are appropriate for these locations as well.



Uses by Land Area:



The uses and activities featured in the Zion Crossroads Mixed Use Village both support and benefit from the higher intensities activity that occurs in the Town Center. As the title makes clear, there is an integration of various uses, but this must be carefully planned and tailored to the appropriate transportation infrastructure. With correct proportions, the area can provide a very high quality of life for those who prefer a walkable and green neighborhood, while still supporting the economic engine of the Zion Crossroads area.

► T4: MIXED USE VILLAGE

Public Space



The primary public spaces in the Mixed Use Village are parks that serve the local residents and other uses such as schools. Public spaces are especially important for higher-density residential residents, who do not otherwise have private lawns.

Parks could provide such amenities as playgrounds, picnic shelters, dog park fencing, benches, and playing fields. Parks should be connected with a pathway system. Generally, unprogrammed and informal open space is also discouraged in these areas.

Technology/  
Light Industry



Technology and light industry buildings may be located in the Mixed Use Village in areas that are removed, to some degree, from residential streets.

The uses and forms of technology and light industry are much the same as described for the Town Center.

High-Density Residential



High-density apartments (rented) or condominiums (owner-occupied) should directly front streets with minimal setbacks. In this illustration, the multifamily buildings are arranged around a common greenspace encircled by a narrow one-way street.

All parking for multifamily residential buildings should be provided behind the building with a few on-street spaces available for guests.

Medium Density Residential



Medium-density residential areas take the form of the traditional neighborhood commonly built throughout the United States prior to World War II.

Streets are tree-lined with sidewalks. Single-family detached dwellings are integrated with townhomes and duplexes. There are a variety of home styles, with front porches as a dominant feature and front-loaded garages discouraged. Lot sizes are relatively narrow and rectilinear, with private backyard space for each unit. An appropriate density is between 8 and 12 dwelling units per gross acre. Homes are setback a small distance from the streets. Streets are narrow and formed generally into a grid.

Mixed-Use Commercial



Commercial and mixed use uses may take a similar form to those in the Town Center, although the merchandise should ideally cater to more local clientele in the surrounding area. This includes cafes, small grocers, florists, and retail offer convenience goods. Office space or residences are appropriate for above floors.

These uses should be located on the periphery of residential areas so customers from outside the neighborhood need not travel on residential streets. More intense uses may be appropriate near the gateway from an arterial into the neighborhood.

All parking should be provided behind the building with a few on-street spaces available for guests.



	<p><b>Section 3</b> <b>Future Customers and Service Areas</b></p>	
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**Background and Project History**

In 1996, Timmons Group produced a report for Fluvanna and Louisa Counties titled, Water Resources Study for the Zion Crossroads Area. This report estimated the average daily water demand for build-out for the Zion Crossroads area of Fluvanna and Louisa Counties at 2.1 MGD at year 2040. To this demand for typical residential, commercial, and industrial growth was added a 50% reserve capacity for one or two large industrial customers to arrive at an average daily demand of 3.2 MGD. A peaking factor of 1.8 was applied to obtain an estimated peak day demand of 5.8 MGD. The study area of the 1996 report consisted of 5,240 acres. The typical average daily demand per acre (2.1 MGD ÷ 5,240 acres) calculated to 401 gallons per day per acre.

In 1998, Timmons Group produced a report for Fluvanna County titled, Water and Wastewater Preliminary Engineering Report and Facilities Master Plan for Fluvanna County. This report examined county-wide growth and water demands. An average population growth rate of 3.4% was projected for the study period of 1998 – 2025 resulting in a 2025 population projection of 44,400. The report calculated a ratio of residential use acreage to commercial use acreage of 20:1. Industrial Use property was estimated based on proximity to the Zion Crossroads interchange or then existing patterns of industrial growth. 2025 water demand was projected as follows.

Residential	3.08 MGD
Commercial	1.41
<u>Industrial</u>	<u>0.97</u>
Total Fluvanna County	5.46 MGD

In 2002, the Fluvanna County Board of Supervisors created a water supply work group to “provide a more reliable water supply source for the Fork Union Sanitary District and other County needs”. The work group returned that same year a report titled, Report of Recommended Water Supply Alternative. The report recommended the James River as the best source of water for the County. In the work group’s study, the 1998 Timmons Group demand projections were rejected as being “too high”. The report developed the table of projected demand provided below.

Area	2005	2010	2015	2025
<b>Fork Union</b>	200,000	250,000	275,000	300,000
<b>Palmyra</b>	50,000	250,000	500,000	1,000,000
<b>Columbia</b>	50,000	100,000	200,000	300,000
<b>Women's Prison</b>	150,000	150,000	150,000	150,000
<b>Louisa County</b>	50,000	250,000	750,000	1,200,000
<b>Total</b>	<b>500,000</b>	<b>1,000,000</b>	<b>1,875,000</b>	<b>2,950,000</b>

In 2003, Anderson and Associates, Inc. produced a report for Fluvanna County titled, Water Study, Fluvanna County, Virginia. Anderson and Associates utilized Year 2000 Census data to determine Fluvanna County population densities and projections. The County's Comprehensive Plan was utilized to determine the area to be served. A chart was produced that provided 2025 and ultimate water demands for Fluvanna County of 3.77 MGD and 6.44 MGD, respectively. Of these amounts, the County would supply 1.57 MGD in 2025 and ultimately 2.92 MGD. To these were added demands of 0.15 MGD for the Women's Correctional Center and 1.50 MGD for Louisa County for totals of 5.42 MGD at 2025 and 4.57 MGD at ultimate.

### Population Growth Methodology

The 2000 Census was used as the starting point for Fluvanna County population projections. Numerous population and population density maps are available online from the U.S. Census Bureau. The geographic areas did not exactly match the "planning areas" as delineated in the County's existing comprehensive plan. The population areas were therefore interpolated to arrive at estimates for the County's growth areas.

Since 2001, Fluvanna County has tracked building permits, land re-zonings, and site plans to chart the growth in the various planning areas and rural areas. The existing County Comprehensive Plan established a goal of directing 70% of growth to the planning areas and 30% of growth to rural areas. From 2001 to 2006 an annual report was prepared by the Planning Department to state the past year's growth and grade the effectiveness of the plan in directing growth in the desired percentages. Therefore, from 2000 to 2006, County growth trended generally with the plan. Further, the number of building permits was multiplied by 2.7 persons per residence to obtain an annual projection of population growth in each planning area.

The U.S. Census Bureau has since developed population projections from 2006 to 2030. These projections were then used as benchmarks for projecting Fluvanna County’s growth to 2030. The growth rates between the five and ten year intervals used by the agencies were then interpolated to produce annual estimates. Growth rates after 2030 were estimated in generally decreasing rates. If the period of growth from 1970 to 2000 were included within the historic population figures from 2000 to 2006 and the projections from 2007 to beyond 2030, a classic “S” curve is produced. Of course, the farther into the future that a projection is made, the greater the chance for error.

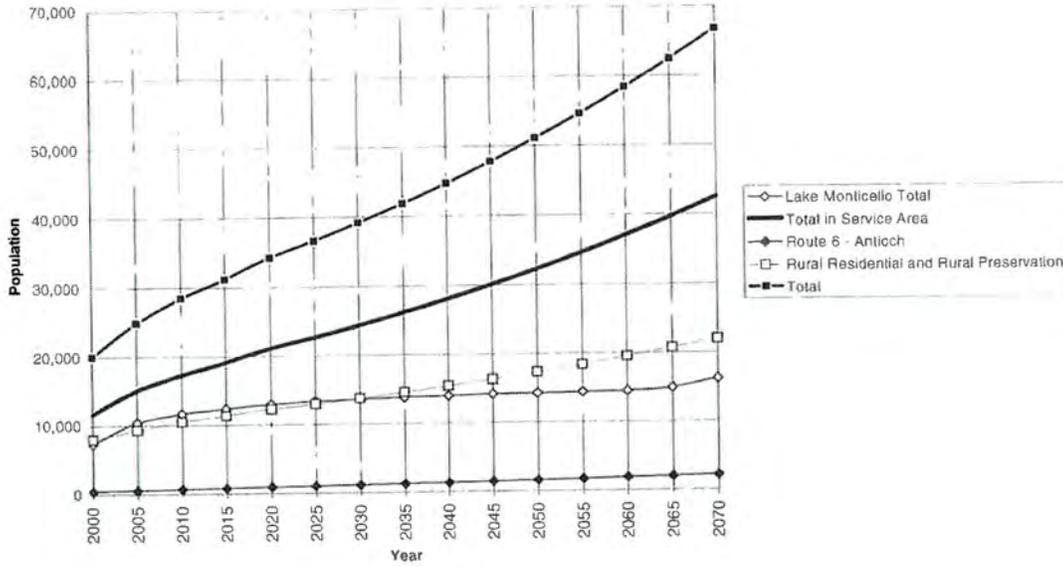
The projected countywide populations were then divided among the planning and rural areas based on the rates described above. The area of greatest historic growth, the Lake Monticello Community, is much farther along in approaching build-out than other areas of the County. This area was “capped” at approximately 11,000 people. The rate of growth was slowed in this area and the population distributed to other areas to maintain a total accounting for the overall population growth. Last, the Route 6 / Antioch area was included in the development area populations, but is not considered in the service area of this project. Therefore, 4% of county-wide population growth is applied to the Route 6 / Antioch planning area.

Projected Fluvanna County Population (TJPDC Projections)

Year	North-South 250	Zion Crossroads	Palmyra	Fork Union	Columbia	Lake Monticello Community	Lake Monticello Primary Residential	Total in Service Area	Route 6 - Antioch	Rural Residential and Rural Preservation	Total	Annual Growth Rate
2000	1,173	712	329	2,000	96	7,022	305	11,637	435	7,975	20,047	
2005	1,357	835	378	2,031	102	9,812	586	15,101	524	9,291	24,916	2.590%
2010	1,646	1,140	585	2,065	131	10,433	1,214	17,293	665	10,513	28,471	2.788%
2015	1,940	1,506	897	2,093	159	10,727	1,654	19,127	776	11,346	31,250	1.880%
2020	2,302	2,010	1,299	2,133	179	10,928	2,057	21,140	898	12,261	34,300	1.880%
2025	2,646	2,510	1,487	2,180	210	11,006	2,370	22,703	992	12,972	36,667	1.344%
2030	3,080	3,345	1,503	2,213	244	11,023	2,603	24,374	1,094	13,731	39,198	1.344%
2035	3,597	4,235	1,521	2,302	279	11,041	2,746	26,154	1,202	14,540	41,896	1.340%
2040	4,168	5,187	1,540	2,380	317	11,060	2,917	28,057	1,317	15,405	44,779	1.340%
2045	4,778	6,224	1,561	2,400	358	11,080	3,100	30,091	1,440	16,330	47,861	1.340%
2050	5,495	7,441	1,582	2,444	358	11,102	3,165	32,265	1,572	17,318	51,155	1.340%
2055	6,262	8,743	1,606	2,480	358	11,125	3,235	34,588	1,713	18,374	54,675	1.340%
2060	6,808	10,282	1,655	2,614	358	11,150	3,334	37,072	1,863	19,503	58,438	1.340%
2065	7,021	11,769	1,682	3,012	358	11,203	3,706	39,726	2,024	20,709	62,460	1.340%
2070	7,248	12,903	1,682	3,041	358	11,543	4,699	42,563	2,196	21,999	66,758	1.340%



**JAMES RIVER WATER SUPPLY**  
**Fluvanna County Projected Population Growth**



### Ultimate Water Demand

The ultimate water demands as determined by Anderson and Associates, Inc. were used for Zion Crossroads, North / South 250, Palmyra, Fork Union, and Columbia planning areas. The Lake Monticello Community was estimated to have a build-out population of approximately 11,500. An ultimate demand of 1,200,000 GPD was assumed. An ultimate demand of 500,000 GPD was assumed for Lake Monticello Primary Residential. Then the ultimate demands for each planning area were divided by the acreage to arrive at a per acre demand as shown in the following table:

Fluvanna County Build-out Demands

Planning Area		Acreage	Residential Acreage	Development Factor
Planning Area	Ultimate Demand (GPD)	Area (Acres)	Usable Area (Acres)	Demand/Acre
North-South 250	900,000	6,200	3720	242
Zion Crossroads	1,410,000	4,800	2880	490
Palmyra	235,000	4,700	2820	83
Fork Union	330,000	3,000	1800	183
Columbia	45,000	1,600	960	47
Lake Monticello Community	1,200,000	5,100	3060	392
Lake Monticello Primary Res.	500,000	5,300	3180	157
Total	4,620,000	30,700	18,420	251

Net usable land area was estimated to be 65% of gross land area. Commercial / industrial land use was estimated at 10% of the total area in the Zion Crossroads and North / South 250 planning areas. Commercial / industrial land use was estimated at 5% of the total area in all other planning areas. Commercial / industrial average daily demands per acre were then assumed for each planning area, each relative to the proposed ultimate demands and nature of existing and proposed development.

Ultimate Residential Demand								
Planning Area	Ultimate Demand (GPD)	Usable Area (acres)	Commercial /Industrial Area (acres)	Commercial Demand (GPD)	Average Commercial /Industrial Demand /acre	Residential Area (acres)	Residential Demand (GPD)	Average Residential Demand /acre
North-South 250	900,000	3,720	372	186,000	500	3,348	714,000	213
Zion Crossroads	1,410,000	2,880	288	144,000	500	2,592	1,266,000	488
Palmyra	235,000	2,820	141	70,500	500	2,679	164,500	61
Fork Union	330,000	1,800	90	27,000	300	1,710	303,000	177
Columbia	45,000	960	48	9,600	200	912	35,400	39
Lake Monticello Community	1,200,000	3,060	153	45,900	300	2,907	1,154,100	397
Lake Monticello Primary Res.	500,000	3,180	159	47,700	300	3,021	452,300	150
Total	4,620,000	18,420	1,251	530,700		17,169	4,089,300	238

Deducting the commercial / industrial demands for each planning area resulted in a remainder representing residential development demand. The ultimate residential demand was then divided by 100 GPD per capita to determine an ultimate population for each planning area.

Ultimate Population			
Planning Area	Residential Demand (GPD)	Per Capita Demand (GPD)	Ultimate Population
North-South 250	714,000	100	7,140
Zion Crossroads	1,266,000	100	12,660
Palmyra	164,500	100	1,645
Fork Union	303,000	100	3,030
Columbia	35,400	100	354
Lake Monticello Community	1,154,100	100	11,541
Lake Monticello Primary Res.	452,300	100	4,523
Total	4,089,300		40,893

The combined residential / commercial / industrial demand per capita was then determined in the following table:

Combined Per Capita Demand			
Planning Area	Ultimate Demand (GPD)	Ultimate Population	Combined per Capita Demand
North-South 250	900,000	7,140	126
Zion Crossroads	1,410,000	12,660	111
Palmyra	235,000	1,645	143
Fork Union	330,000	3,030	109
Columbia	45,000	354	127
Lake Monticello Community	1,200,000	11,541	104
Lake Monticello Primary Res.	500,000	4,523	111
Total	4,620,000	40,893	113

### **Determination of Annual Demand Growth**

It is anticipated that as the system builds out that a greater percentage of the population is served by public water. This is reflected as a percentage of population served that increases through the planning period.

Population Served – Multiplication Factors

Year	North-South 250	Zion Crossroads	Palmyra	Fork Union	Columbia	Lake Monticello Community	Lake Monticello Primary Residential
2009	0.1	0.1	0.1	0.6	0.1	0.7	0.1
2010	0.12	0.12	0.12	0.616	0.12	0.705	0.12
2011	0.14	0.14	0.14	0.632	0.14	0.71	0.14
2012	0.16	0.16	0.16	0.648	0.16	0.715	0.16
2013	0.18	0.18	0.18	0.664	0.18	0.72	0.18
2014	0.2	0.2	0.2	0.68	0.2	0.725	0.2
2015	0.22	0.22	0.22	0.696	0.22	0.73	0.22
2016	0.24	0.24	0.24	0.712	0.24	0.74	0.24
2017	0.26	0.26	0.26	0.728	0.26	0.75	0.26
2018	0.28	0.28	0.28	0.744	0.28	0.76	0.28
2019	0.3	0.3	0.3	0.76	0.3	0.77	0.3
2020	0.32	0.32	0.32	0.776	0.32	0.78	0.32
2021	0.34	0.34	0.34	0.792	0.34	0.79	0.34
2022	0.36	0.36	0.36	0.808	0.36	0.8	0.36
2023	0.38	0.38	0.38	0.824	0.38	0.81	0.38
2024	0.4	0.4	0.4	0.84	0.4	0.82	0.4

2025	0.42	0.42	0.42	0.856	0.42	0.83	0.42
2026	0.44	0.44	0.44	0.872	0.44	0.85	0.44
2027	0.46	0.46	0.46	0.888	0.46	0.87	0.46
2028	0.48	0.48	0.48	0.904	0.48	0.89	0.48
2029	0.5	0.5	0.5	0.92	0.5	1	0.5
2030	0.52	0.52	0.52	0.928	0.52	1	0.52
2031	0.55	0.55	0.55	0.936	0.54	1	0.55
2032	0.58	0.58	0.58	0.944	0.56	1	0.58
2033	0.61	0.61	0.61	0.952	0.58	1	0.61
2034	0.64	0.64	0.64	0.96	0.6	1	0.64
2035	0.67	0.67	0.67	0.964	0.62	1	0.67
2036	0.7	0.7	0.7	0.968	0.64	1	0.7
2037	0.73	0.73	0.73	0.972	0.66	1	0.73
2038	0.76	0.76	0.76	0.976	0.68	1	0.76
2039	0.79	0.79	0.79	0.98	0.7	1	0.79
2040	0.82	0.82	0.82	0.984	0.72	1	0.82
2041	0.87	0.87	0.87	0.988	0.74	1	0.87
2042	0.92	0.92	0.92	0.992	0.76	1	0.92
2043	0.97	0.97	0.97	0.996	0.78	1	0.97
2044	1	1	1	1	0.8	1	1
2045	1	1	1	1	0.83	1	1
2046	1	1	1	1	0.86	1	1
2047	1	1	1	1	0.89	1	1
2048	1	1	1	1	0.92	1	1
2049	1	1	1	1	0.95	1	1
2050	1	1	1	1	0.98	1	1
2051	1	1	1	1	1	1	1

Annual water demands were then determined from the assignment of population to planning areas and the factor for population served. Aqua Virginia was allocated 1.0 MGD of demand in the Lake Monticello planning areas. The remainder of demands in those areas is to be provided by the authority either by sales to Aqua Virginia or direct sales to the customers. The Lake Monticello areas were included in Anderson and Associates "ultimate" demands but were not included in incremental demands. It was assumed that Aqua would serve all growth in those areas through 2010. Therefore, an increase in overall demands is presented here due to the "capping" of Aqua water production.

Louisa County demands were determined based on straight line growth from 200,000 GPD in 2009 to 1,500,000 GPD in 2040, with 2025 assumed to be the year of "ultimate" demand. An additional 100,000 GPD was then added to be reached by 2040. This additional growth was considered to serve the Ferncliff area or other areas of Louisa County. Service to the Ferncliff area of Fluvanna County is considered included in overall demand projections, it being assumed that the overall total will be the same as Section 3 – Future Customers and Service Areas



calculated, with only the distribution of demands modified. Even though the Ferncliff demands are not called out in the spreadsheets, waterline sizing should consider an additional 250,000 GPD demand in the Ferncliff area.

### **Building Permits**

From 2000 to 2007, Fluvanna County has averaged 323 building permits issued per year. The County had a high of 453 homes permitted during 2001 and a low of 177 homes permitted in 2007. Given the investment in a water system, it is reasonable to assume that anywhere from 200 to 300 new homes a year will be constructed in the designated service areas that this system will serve. Below is the table outlining building permits issued from the 2007 Development Activity Report:

<b>Year</b>	<b>Inside Lake Monticello</b>	<b>Outside Lake Monticello</b>	<b>Total</b>
2000	190	158	348
2001	282	171	453
2002	269	162	431
2003	138	221	359
2004	154	182	336
2005	79	184	263
2006	42	176	218
2007	27	150	177
<b>Total</b>	<b>1181</b>	<b>1404</b>	<b>2585</b>
<b>Avg</b>	<b>148</b>	<b>176</b>	<b>323</b>

### **Existing Households & Businesses**

It is anticipated that a number of existing homes and businesses will be desirous to connect to the water system upon installation. In order to account for these existing facilities, we have developed demand / growth projections to mirror what we anticipate will include these facilities coming on line between system completion and the year 2020. It's important to note that water demand projections will be slightly higher than population projections due to existing households and businesses hooking into the system as the Fluvanna "retail" system is extended into the designated growth areas of the County.

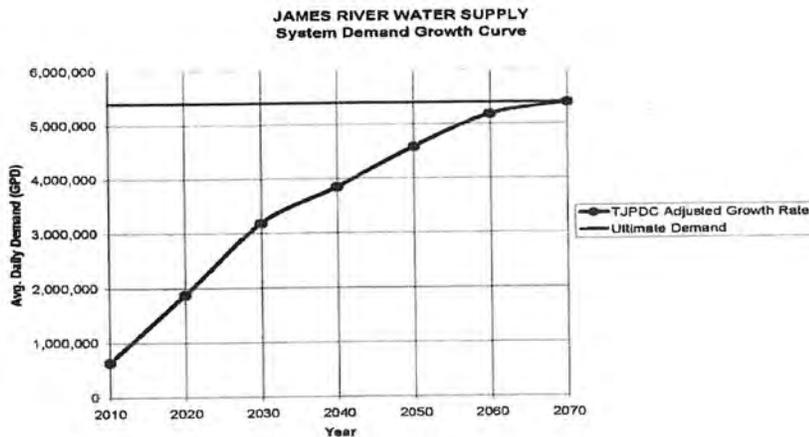
### **Adjusted Water Demands**

Based upon all the factors discussed above, we have developed adjusted water demands that are reflected in the table below:

Adjusted Water Demands (GPD)

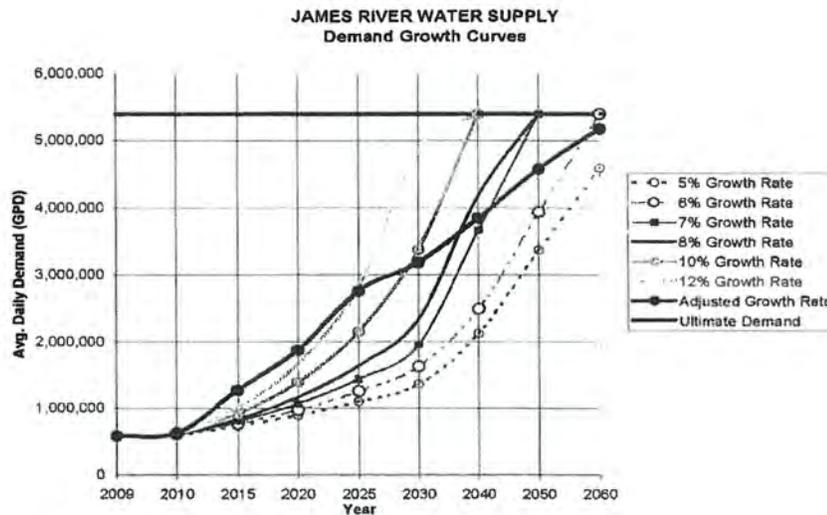
Planning Area	2009	2010	2015	2020	2025	2030	2040	2050	2060	2070	Ultimate	Ultimate with Aqua
North/South 250	19,919	22,906	56,999	114,644	230,591	371,369	604,921	900,000	900,000	900,000	900,000	900,000
Zion Crossroads	11,841	13,617	33,884	68,152	137,079	220,786	359,605	585,759	1,191,620	1,410,000	1,410,000	1,410,000
Palmyra	7,625	8,769	17,638	35,478	57,135	72,920	118,780	193,480	235,000	235,000	235,000	235,000
Fluvanna Schools	25,000	25,000	30,000	30,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Fork Union	184,000	188,563	208,644	230,281	253,238	273,709	302,867	316,145	330,000	330,000	330,000	330,000
Columbia	0	0	0	0	0	16,107	29,044	44,600	45,000	45,000	45,000	45,000
Lake Monticello Community	0	0	27,000	94,500	162,000	229,500	364,500	400,000	400,000	400,000	400,000	1,200,000
Lake Monticello Primary Residential	0	0	94,500	162,000	229,500	297,000	300,000	300,000	300,000	300,000	300,000	500,000
DOC Womens Correctional Center	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000
<b>Total Fluvanna Customers</b>	<b>398,000</b>	<b>409,000</b>	<b>619,000</b>	<b>685,000</b>	<b>1,270,000</b>	<b>1,681,000</b>	<b>2,280,000</b>	<b>2,940,000</b>	<b>3,364,000</b>	<b>3,820,000</b>	<b>3,820,000</b>	<b>4,820,000</b>
Louisa County	200,000	240,000	680,000	996,000	1,500,000	1,533,333	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000
<b>Total Demand</b>	<b>598,000</b>	<b>649,000</b>	<b>1,279,000</b>	<b>1,881,000</b>	<b>2,770,000</b>	<b>3,214,000</b>	<b>3,880,000</b>	<b>4,540,000</b>	<b>4,964,000</b>	<b>5,420,000</b>	<b>5,420,000</b>	<b>6,420,000</b>

The demand results produced a system demand growth curve as shown below.



The projected water demands were then compared to various theoretical demand rates to determine the reasonableness of the demand growth results as shown in the following graph.

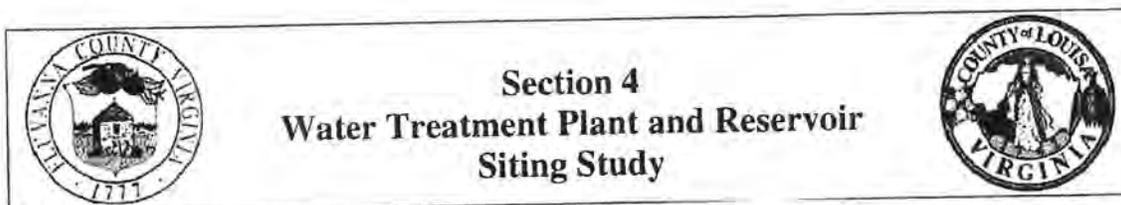




From the demand projections shown in the above graph, demand nodes were then created along the proposed distribution align to be used in sizing the potable water distribution pipelines. It was also assumed that Aqua Virginia’s system would be able to accommodate approximately 1.0 MGD

Therefore, after several discussions with both Fluvanna and Louisa Counties, it was determined to develop the Project in two phases / capacities:

- The initial phase (Phase 1) will have a flow capacity of 3.0 MGD.
- The ultimate phase (Phase 2) should have a flow capacity of 6.0 MGD to accommodate both the Louisa and Fluvanna demands at ultimate build out.



### **Introduction**

The 2003 Anderson and Associates Water Study for Fluvanna County recommended the location of a water treatment plant in the vicinity of the State Route 6 and State Route 649 intersection. This would locate the WTP at the receiving connection to the ECTI pipeline. The location of a raw water reservoir was not included in the study, although an 800 acre-foot volume reservoir was included in the costs for Anderson and Associates' Phase 2 improvements.

Since the Anderson and Associates study, discussions with ECTI have developed a plan for a continuous raw water design capacity of 1.5 MGD to 3.0 mgd (Uninterruptable and interruptable) for the proposed water system. Therefore, raw water storage capacity may be warranted in the future after the receiving connection to the ECTI pipeline.

In order to best evaluate the potential water treatment plant sites, we must also consider the proximity and location of potential reservoirs that can be utilized for raw water storage to help optimize the system. It's important to note that dependent upon ultimate operations of the raw water system and the potential costs of a reservoir, it might be in the Counties best interest to consider constructing a second parallel pipeline in lieu of a storage reservoir.

### **Reservoir Design & Evaluation Considerations**

Raw water reservoirs contain three vertical zones. The top one-third of the reservoir depth is considered the usable volume. The middle one-third of the reservoir depth is considered the usable reserve. The bottom one-third is a sedimentation zone and has an unusable volume. Timmons Group recommends that the raw water reservoir contain a usable volume and usable reserve capacity to sustain system demands for up to 60 days. At 6.0 MGD demand this equates to 360 million gallons (1104 acre-feet).

The proposed impoundment will be created with an earthen dam. Material for the dam is considered to be available onsite in the reservoir cost analysis. A piped flow outlet is proposed to allow discharge downstream while the surface elevation is allowed to vary based on demand drawdown. A concrete raw water intake allowing water withdrawal at multiple depths is proposed.

### Reservoir Site Alternative Analysis

Thirteen possible reservoir sites were considered throughout the County in areas that would be proximate to the potential raw water line. It's important to note that the sites selected were evaluated based topography and other geographic considerations. The sites were evaluated based on the following criteria.

- Usable volume and usable reserve capacity
- Acreage requirement for impoundment and dam
- Number of private property owners affected for impoundment and dam
- Acreage of private land required for the impoundment and dam
- Access requirements
- Location relative to the ECTI pipeline and service area
- Environmental and Historical/Cultural Impact
- Dam Size

### **Usable Volume**

The total volume of each reservoir site at normal pool elevation is provided in Figure 4-2. Sites R-2, R-3, R-4, R-7, R-10, R-11, and R-13 provide insufficient volume to meet a 60 day demand and are eliminated from further analysis.

**Figure 4-2  
Reservoir Alternatives Analysis  
Total Impoundment Volume**

Site	Total Volume (million gallons)
R-1	652
R-2	229
R-3	89
R-4	64
R-5	574
R-6	425
R-7	190
R-8	368
R-9	482
R-10	144

Figure 4-4

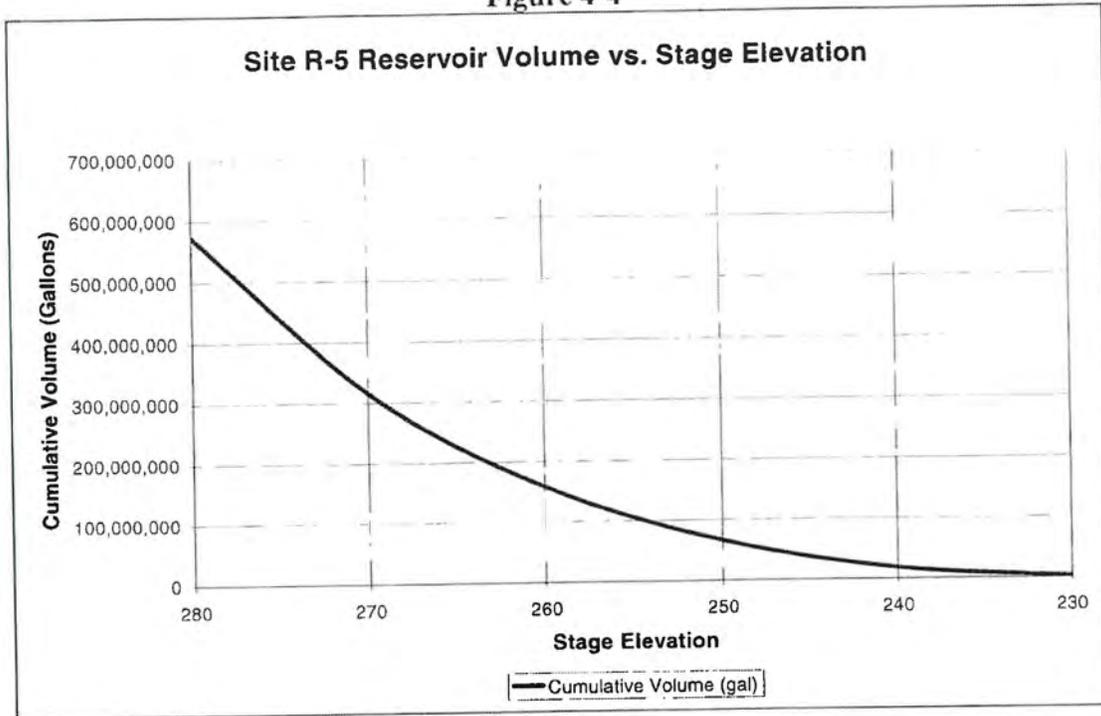


Figure 4-5

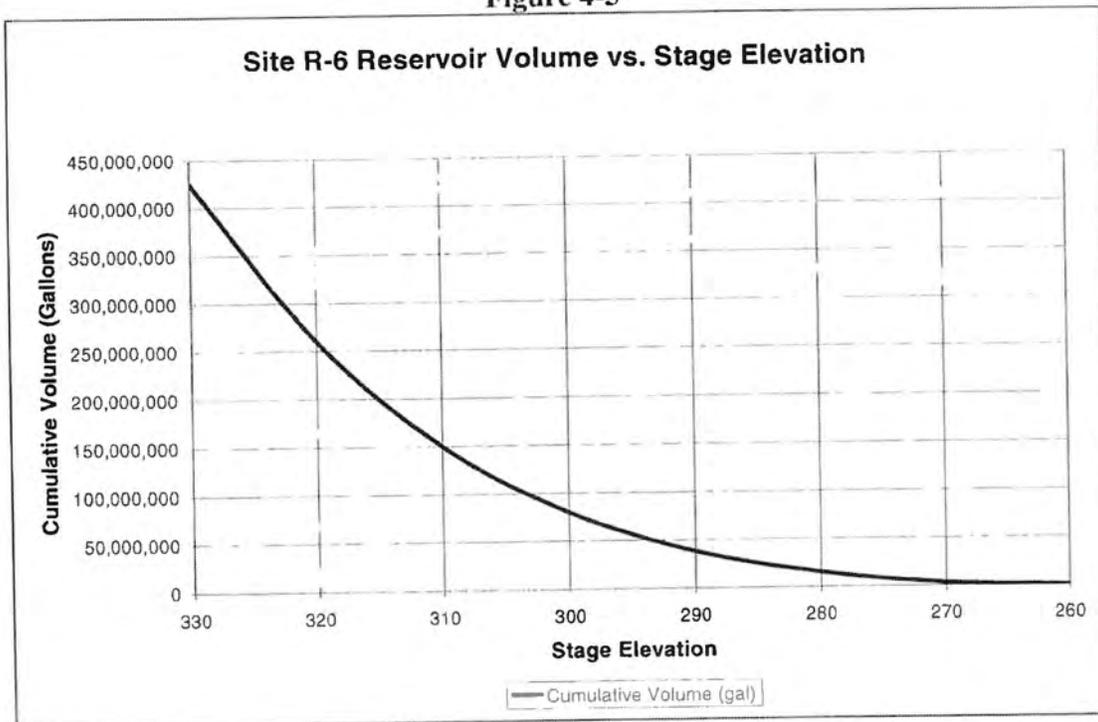
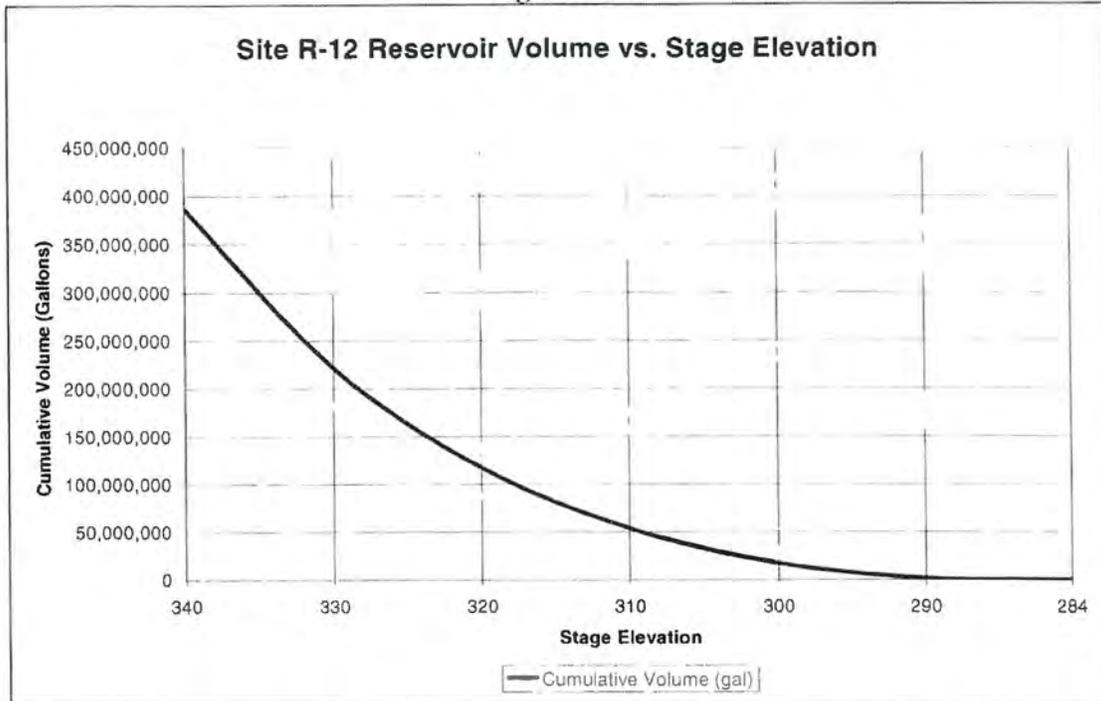


Figure 4-8



From the Stage-Volume curves, the usable volume and usable reserve can be determined for each site. The results are shown below in Figure 4-9.

Figure 4-9  
Reservoir Usable Volumes

Site	Usable Volume ( million gallons)	Usable Reserve ( million gallons)	Total ( million gallons)
R-1	417	190	607
R-5	369	160	529
R-6	300	100	400
R-8	243	105	348
R-9	341	120	461
R-12	230	100	330

Sites R-8 and R-12 do not meet the requirement for a usable capacity of 360 million gallons per day, and will not be further considered. Figures 4-10 through 4-13 show the layouts of the remaining four reservoir sites.

**Private Property Land Requirements**

Land requirements will exceed that of the impoundment and dam. Access, spillways, buffers, pump controls, power line easements, and the general layout of the impoundment require land or easement rights. For the sake of this study, the area of the impoundment and dam are examined. Figure 4-14 compares the land requirements of each site.

**Figure 4-14  
Private Property Land Requirements**

Site	Reservoir and Dam Area (acres)	Area of Private Property Required for Reservoir and Dam (acres)	Number of Private Property Owners Impacted by Area Requirements for Reservoir and Dam	Number of Private Property Owners Impacted including Access and Utility Easements
R-1	124	124	3	5
R-5	99	63	4	4
R-6	62	57	3	3
R-9	102	102	16	16

**Access Requirements**

Figure 4-15 shows the length of access road from the nearest County or VDOT maintained road required to reach the dam site for each alternative. It is assumed that all waterlines and utilities will follow the access road.

**Figure 4-15  
Length of Access Road Required**

Site	Access Road Requirements (linear feet)
R-1	1100
R-5	2300
R-6	3100
R-9	400

### Location Relative to ECTI Pipeline and Service Area

The location of each site is ranked based on distance from the ECTI pipeline and the distance from the service area. Also each is ranked based on the quantity of distribution line and raw water line running parallel to each other, and therefore requiring pumping past the same point twice.

**Figure 4-16**  
**Location Relative to ECTI Pipeline and Service Area**

Site	Distance from ECTI Pipeline (feet)	Distance from Service Area (feet)	Length of Parallel Raw and Finished Waterlines (feet)	Difficulty of Construction of Lines through Lake Monticello Development
R-1	8400	67600	0	Moderate
R-5	26900	16200	2300	Moderate
R-6	40500	4600	25600	High
R-9	45400	7900	30950	High

### Environmental and Historical/Cultural Impacts

This study is not intended to provide detailed analysis of environmental or historical cultural impacts of each reservoir site. The presence of perennial and/or non-perennial streams is anticipated at each site the quantity of each is unknown at this time, as access to sites has not been obtained. The presence of endangered or threatened species specific to each site is also unknown for the same access reason.

The smaller reservoir sites were selected in order to minimize impacts to perennial streams. Those sites were however, insufficient in capacity to meet the needs of the system.

United States Geological Survey (USGS), National Wetland Inventory (NWI), and Federal Emergency Management Agency (FEMA) mapping was utilized to estimate environmental impacts of each site. Figure 4-17 provides the results of the investigation.

**Figure 4-17  
Estimated Environmental Impacts**

Site	Estimated Length of Perennial Streams	Estimated Length of Non-Perennial Streams	NWI Wetlands (acres)	FEMA Flood Zone
R-1	7,600	7,600	4	0
R-5	10,800	3,600	5	4.80
R-6	3,200	2,600	2	0
R-9	3,200	7,900	2	0

Stream mitigation will be required for all perennial and non-perennial streams impacted. If Fluvanna County performs stream restoration to offset impacted streams, it must restore at a rate of 1.3 to 1. If it seeks mitigation purchase, it must purchase a rate of 1 to 1 for streams impacted.

Wetland mitigation for impacted wetlands must be at a rate of 2 to 1.

Historical/Cultural impacts are anticipated to be minimal. Additional research is required however, to determine all impacts at each site. (See Volume 2 – Preliminary Environmental Evaluation)

#### **Dam Size**

The size of the dam is a consideration associated with construction cost. The volume of earth required for dam construction is anticipated to be available on site. The estimated volume of each sites dam is provided in Figure 4-18.

**Figure 4-18  
Dam Volume**

Site	Dam Volume (cubic yards)
R-1	91,000
R-5	125,000
R-6	165,000
R-9	92,000

Figure 4-23 provides a matrix for determining the optimum site for the proposed reservoir.

**Figure 4-23  
Decision Matrix**

Site	Usable Volume and Usable Reserve Capacity	Acreage Requirement for Impoundment and Dam	Area of Private Property Impacted by Impoundment and Dam	Access Length	Number of Private Property Owners Impacted by Access and Utility Easements	Location Relative to ECTI Pipeline and Service Area	Environmental and Historical/Cultural Impact	Dam Volume	Total Score
R-1	7	10	10	4	1	17	10	6	65
R-5	8	8	5	7	0	17	9	8	62
R-6	10	5	5	10	0	28	4	10	72
R-9	9	8	8	1	0	31	7	6	70

Scale – low number = best score; high number = worst score

### **Reservoir Siting Recommendation**

Timmons Group recommends Site R-5 (Pleasant Grove) as the location of the raw water reservoir. The site offers a location central to the geographic service area and to the ECTI pipeline, the impoundment is more than adequate for a 60 day demand, the acreage requirement is moderate, the acreage of private property required is minimized, access distance from the existing park property is minimal, and excavation and hauling quantities of earthen material for the dam is minimized. The alternative requires one pipeline along South Boston Road (State Route 600) through the constricted Lake Monticello area.

### **Water Treatment Plant Siting**

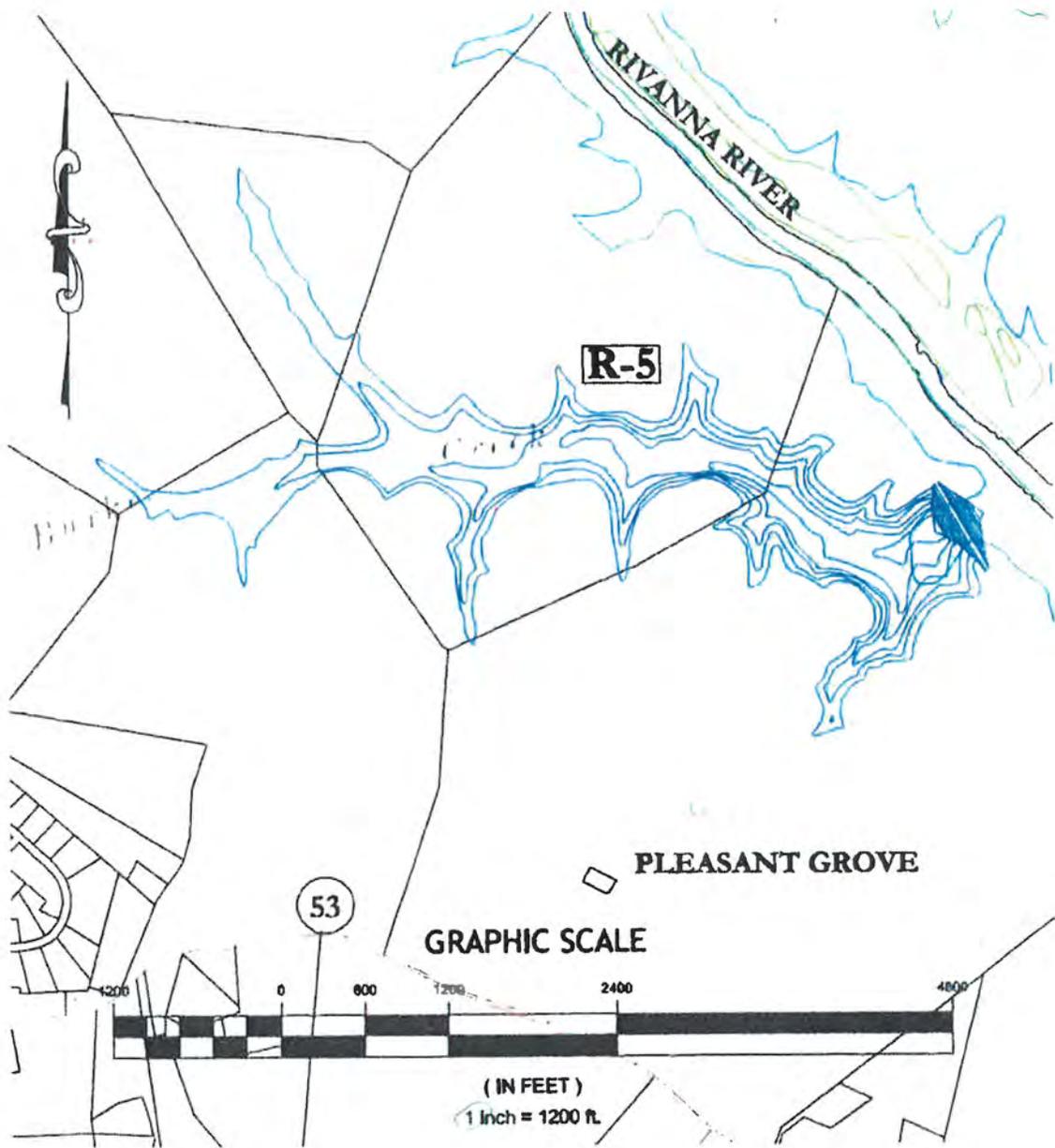
The selection of Site R-5 for the location of the reservoir leads to siting the proposed water treatment plant on the Fluvanna County-owned Pleasant Grove property. The location of the property places the plant roughly midway between the Lake Monticello development and the village of Palmyra. The site is close to both of these areas of the

service area and the paralleling of raw water and finished water lines is minimized along Route 53.

The use of Fluvanna County-owned property eliminates purchase of the site and purchase negotiations with private property owners, thereby minimizing the schedule impact for the project. The selection of the Pleasant Grove site also allows for construction to commence on the water treatment plant while permitting of the reservoir is completed.

The WTP should be located on a relatively flat ground near the lower end off the reservoir. Minimizing distance and elevation gain between the reservoir and WTP will reduce horsepower and/or pipe sizing requirements for the raw water line from the intake structure to the plant. Also the length of power and communication lines will be reduced.

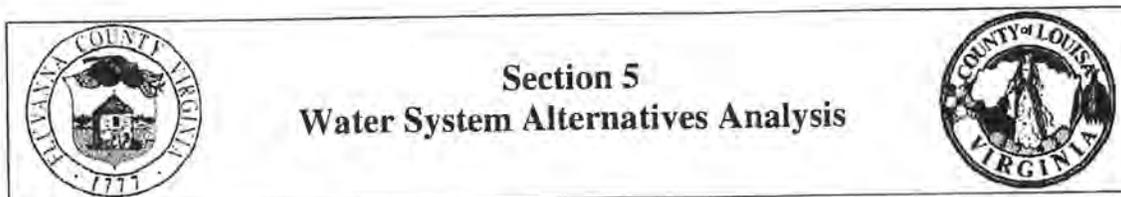
Figure 4-24 provides the proposed location of the water treatment plant on the Pleasant Grove site.



Water Treatment Plant and Reservoir Siting Study  
Figure 4-11  
Reservoir Site R-5

Section 4 - Water Treatment Plant Siting Study





### Water System Alternatives Analysis

For the purpose of this study we considered three separate and distinct alternatives for the evaluation of the system. Following were the objectives for this study / analysis:

1. Evaluate the most feasible and cost effective way to provide water from the James River to supply the Zion Crossroads area
2. Deliver 3 million gallons per day (MGD) for the initial development of the system and up to 6 MGD for the ultimate development of the system
3. Minimize up-front capital costs of the system
4. Respect the current and proposed Comprehensive Plan within Fluvanna County
5. Respect the integrity of the Rte 15 corridor as the “gateway” to Fluvanna County
6. Honor the MOU between Fluvanna and Louisa Counties dated March 2003 for 50/50 split of capital costs.

In order to minimize the up-front capital costs for the project, the Counties have identified key potential project partners that could be utilized for the development of the system. These key potential project partners are listed below:

1. Dominion Virginia Power – utilize the existing intake structure on the James River located at the Bremo Power Facility
2. Tenaska / East Coast Transmission Inc. (ECTI) – Utilize the existing pipeline to serve the Tenaska Plant
3. Aqua Virginia – Potentially use existing system capacity & possible expansion of their water treatment plant
4. Department of Corrections – Need water for system redundancy such that they can replace their existing water system at the Fluvanna Correctional Facility

### Alternatives Considered

Following are the three main alternatives that were evaluated for this study. It's important to note that these were the three most logical choices for the system development based upon the previous studies performed and the County's desire to preserve the Rte 15 “gateway” to Palmyra and minimize development pressure along Route 15.

### **Alternative 1 – Pleasant Grove Site**

We considered the Pleasant Grove Alternative for numerous reasons as listed below:

1. Fluvanna County owned property
2. Potential reservoir site
3. Central to Fluvanna County
4. Can easily serve Fluvanna County designated growth areas

The Pleasant Grove Alternative would consist of the following components:

1. Provide raw water to the WTP at Pleasant Grove
2. Construct 3 MGD plant expandable to 6 MGD
3. Construct drinking water pipeline up Rte 53, South & North Boston Road to Zion Crossroad through designated “growth” areas and adjacent to the Lake Monticello water system
4. Counties would own & operate the WTP and distribution system

Initial estimates indicate this alternative will cost approximately \$45 million for \$15 per gallon of capital costs. In addition, Fluvanna County could extend water to the FUSD with relative ease for a capital cost of approximately \$3.8 million.

### **Alternative 2 – Rte 649/15 WTP Location**

This alternative was the original recommended alternative from the Anderson & Associates report in 2003. This system would consist of the following components:

1. Provide raw water to a plant location at Rte 649
2. Counties need to purchase property for the WTP and potential reservoir site
3. Construct a 3 MGD WTP expandable to 6 MGD
4. Construct a pipeline up Rte 15 to Zion Crossroads through the “Rural Preservation” zone
5. Counties would own & operate the WTP and system
6. Need to extend the pipeline to serve Lake Monticello

Initial estimates indicate that this system will cost approximately \$50.3 million to install this system for \$16.77 per gallon of capital costs. Since the Counties / Authority would need to acquire the property to install the WTP, and this would require the pipeline to be installed along Rte 15 to Zion Crossroads, this is not the recommended long-term alternative.

### **Alternative 3 – Aqua Virginia Expansion**

Aqua Virginia has been identified as a potential project partner since they already own an existing water system in Fluvanna County that serves the Lake Monticello community. Aqua Virginia is an SCC regulated private water company. Based upon the original proposal submitted by Aqua Virginia, this system would consist of the following components:

1. Provide raw water to the existing WTP
2. Expand the existing WTP from 1.38 MGD to 4 MGD
3. Counties to pay \$15 million capital costs up-front for the system expansion
4. Counties will have 2.5 MGD capacity
5. Aqua Virginia would own & operate the WTP
6. Counties would pay Aqua a wholesale rate for the water used
7. Counties would not own the WTP
8. Withdrawal permit of 1.095 MGD from the Rivanna River

Initial estimates indicate that to utilize the Aqua Virginia system, the estimated total capital costs investment would be approximately \$46 million for \$18.40 per gallon (at 2.5 MGD capacity) or \$20.44 per gallon (at 2.25 MGD). In addition, Fluvanna County would need to connect the Pleasant Grove / Palmyra / FUSD systems with a water line, the additional capital costs would be approximately \$3.8 million.

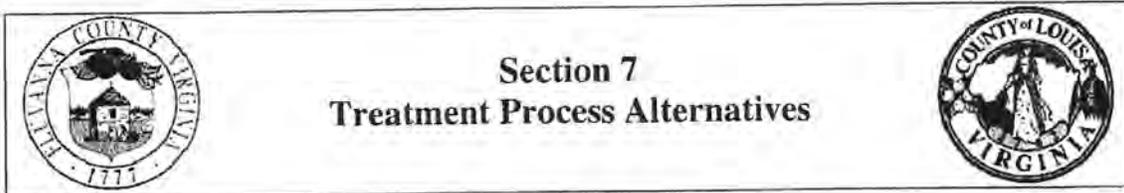
### **Recommended Alternative – Pleasant Grove Site**

Based upon our analysis of the three alternatives above, we are recommending that the Pleasant Grove Alternative be implemented by the Counties for development of this system. We also recommend that Fluvanna County include a connector to the Fork Union Sanitary District (FUSD) in the initial development of this system. Following are the numerous benefits of this recommended alternative:

1. Property owned by Fluvanna County
2. Central to Fluvanna County
3. Potential reservoir site nearby – recreational and county amenity
4. Serves the designated growth regions designated by the Comprehensive Plans
5. Preserves the “Rural Preservation” areas within the County
6. Maintains integrity of the Rte 15 corridor as “gateway” to Palmyra
7. Counties / Authority owned facilities such that system can be controlled
8. Can easily be expanded to 6.0 MGD or larger with minimal issues
9. Could easily provide finished water or raw water to Aqua Virginia
10. Helps Aqua Virginia reduce long-term dependency on the Rivanna River (current withdrawal permit of 1.095 MGD) as the Lake Monticello service area expands

11. Counties could easily survive another 2002 drought without taxing the Rivanna River
12. Lowest overall capital cost per gallon (\$/gal) of the three alternatives
13. FUSD Connector allows for Fluvanna County to pick up substantial user base in Fork Union planning area
14. FUSD Connector removes reliance on the FUSD well system
15. FUSD Connector allows the Fluvanna to connect the existing school system

In addition, the Virginia Department of Health has endorsed this conceptual alternative in a letter dated March 16, 2009 (see attached).



### **Introduction**

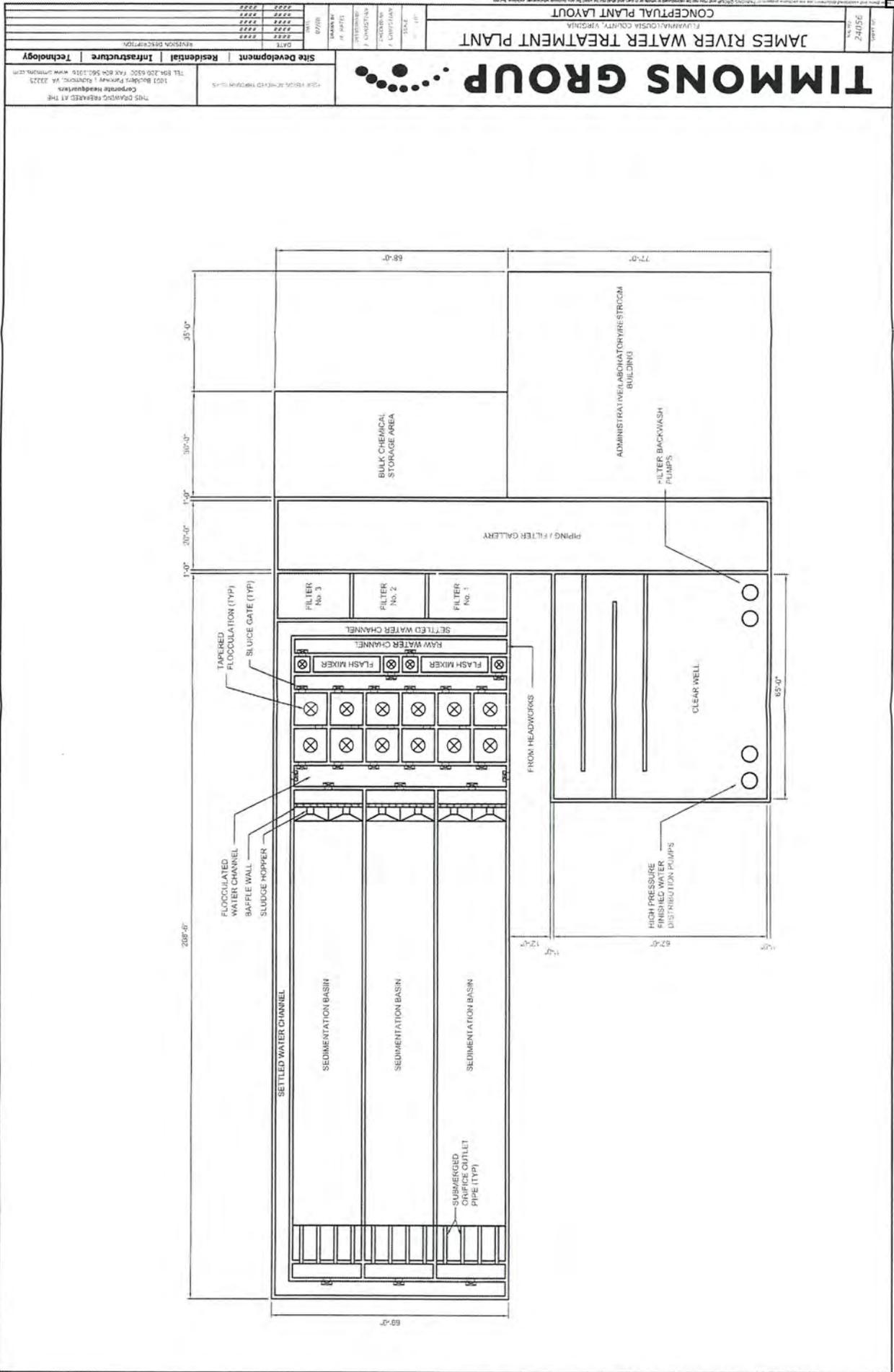
The new Water Treatment Plant (WTP) will be constructed in two phases: one 3.0 mgd independent plant that will be planned for and expanded to a total of 6.0 mgd in the ultimate phase of the Project.

Consultation with the Virginia Department of Health (VDH) indicated that there appeared to be no issues with water quality and treatability of the James River Water. At this conceptual stage of the Project no water quality or treatability studies are to be made. Therefore, for the purposes of this report Timmons Group visited two existing WTP's that are closest downstream of our intended James River Intake Structure (i.e., VDOC's and Henrico County's water treatment plants). From those site visits general process, water quality, and treatability information was gathered from which the following conceptual WTP design was developed.

Timmons Group's lead design engineer has developed the fundamental design layout patterns, process, and systems utilized for numerous facilities similar to the Henrico WTP. In a follow-up meeting with VDH personnel, the proposed concepts were discussed and they concurred with the approach (see VDH letter dated March 16, 2009).

### **Conceptual Plant Flow Diagram**

The following diagram is the Conceptual Plant Flow Diagram depicting the new WTP.



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THIS DRAWING REQUESTED AT THE  
Site Development | Residential | Infrastructure | Technology

**JAMES RIVER WATER TREATMENT PLANT**  
CONCEPTUAL PLANT LAYOUT

DATE	DRAWN BY	CHECKED BY	SCALE	SHEET NO.	SHEET TOTAL

NO. 24056  
24056

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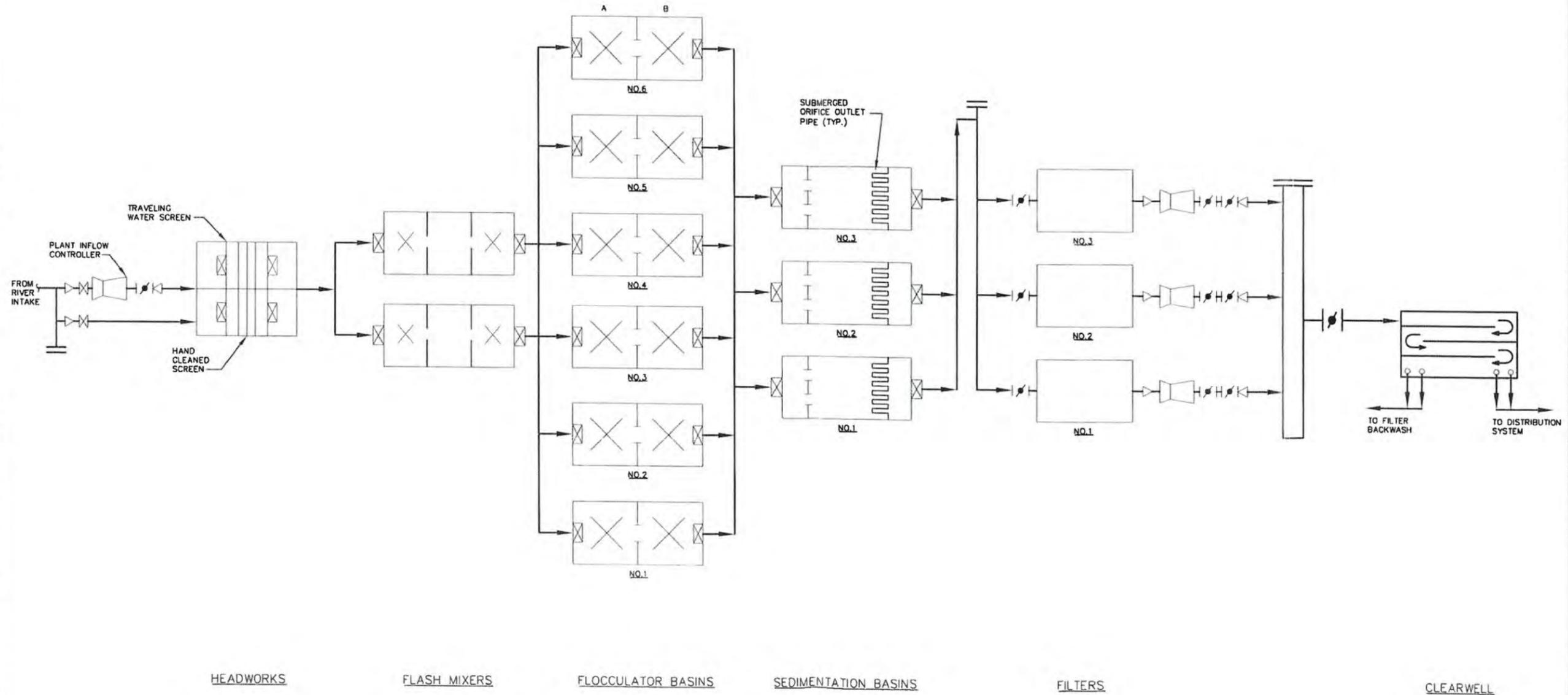
The following is a listing of each process unit with a brief process description (for this conceptual level). Further, pictures of similar facilities have been included to help illustrate our conceptual design intent.

- **General:** In general, several common channels will be utilized throughout the WTP to allow the maximum flexibility in removing any one process unit from service via slide or sluice gate isolation. In addition, should future operating conditions and water quality permit, the facility can be operated in direct filtration mode (i.e., bypassing the Sedimentation Basins).
- **Headworks:** The Headworks will house both an automatically cleaned traveling screen as well as a manually cleaned screen in the event the automatic screen is in need of repair. Slide gates will be utilized to isolate any one of these screens. Depending on the finalized water quality data, the Headworks will be the first point of chemical addition with the following possible chemicals: Potassium Permanganate (for TOC mitigation); Chlorine (for shocking algae blooms periodically only); Chlorine Dioxide (for shocking algae blooms periodically only); Powered Activated Carbon (for taste and odor issues); and Ammonia.
- **Flash Mixers:** The Flash Mixers will be a two staged process to help introduce polymer and / or polymer aid and any other chemicals needed for pretreatment / preconditioning (i.e., pH adjustment). There will be two independent vertical turbine flash mixer trains (two flash mixers per train) isolated by sluice gates to allow any one train to be removed from service should the need arise or low flow dictate.
- **Flocculator Basins:** There will be six independent Flocculator Basin trains isolated with sluice gates to promote the development of larger floc. Vertical turbine tapered energy flocculation will be used to build the largest floc in the most efficient way. Therefore, VFD's will be utilized to achieve the varying Flocculator speeds necessary. Chemicals that may be fed at this location include: Polymer; Polymer Aid; and Ammonia.
- **Sedimentation Basins:** There will be three independent sedimentation basins isolated with sluice gates to allow any one basin to be taken out of service while the other two (or one) to remain in service. There will be a baffle wall at the inlet for each basin to promote equal flow distribution into the basin. Each basin will have a sloped floor back to the inlet end and a chain and flight sludge collection system with sludge hoppers at the inlet end. The sludge hoppers will remove sludge via telescoping valves to the Sludge Handling Facility. The outlet end of each basin will have submerged orifice outlet pipes. Powered Activated Carbon may be fed in this basin for taste and odor issues.

- **Filters:** There will be three dual media, high rate filters. Each filter will have 12 inches of sand under 48 inches of Granular Activated Carbon (GAC) for Total Organic Carbon (TOC) removal. The final specification of the media and media depths will be fully determined during the final design stage of the Project. The filters will have a filter underdrain system allowing air scour during backwash. A rate of flow controller will also be employed at each filter outlet. The filters will be housed within the main operating building of the WTP (unlike the above basins). Upstream of the filters the following chemicals may be fed: Powdered Activated Carbon; Chlorine; Polymer Aid (Filter Aid); and Potassium Permanganate.
- **Clearwell:** There will be one Clearwell with internal concrete baffle walls to promote disinfection contact time. At the end of the baffled Clearwell section will be a larger holding tank housing the Filter Backwash Pumps as well as the High Pressure Finished Water Distribution Pumps (two vertical turbine pumps for each application for a total of four pumps). Chemicals that may be fed include: Chlorine; Chlorine Dioxide; and Zinc Orthophosphate.
- **Future UV Disinfection:** Though not a firm conclusion yet, UV disinfection will be considered to help mitigate THM and HAA formation in the very long potable water lines. As noted in other areas of the PER, in the early years, water age will be an issue leading to the higher potential for higher levels of THM and HAA related issues. Therefore, UV may be considered as a primary disinfectant with chlorine as the secondary disinfectant. However, it is noted that though this approach may be employed, it is recognized that per the existing State regulations, the facility still needs to meet CT via the use of chlorine.

The following are pictures of a similar facility as the one considered above (i.e., the Henrico WTP). The intent of these pictures is to provide a general idea of our future facility.

L:\201\24056-JAMES\_RIVER\_WATER\_SUPPLY\DWG\Sheet\Exhibit\24056C-GFLCW.dwg | Plotted on 3/31/2009 8:54 AM | by Michael Robeson



PLANT FLOW DIAGRAM  
SCALE: NTS

**TIMMONS GROUP**

JAMES RIVER WATER TREATMENT PLANT  
FLUVANNA/LOUISIA COUNTY, VIRGINIA

CONCEPTUAL PLANT FLOW DIAGRAM

JOB NO. 24056  
SHEET NO.

YOUR VISION ACHIEVED THROUGH OURS

DATE 3/08

DRAWN BY S. SCOTT

DESIGNED BY J. CHRISTIAN

CHECKED BY J. CHRISTIAN

SCALE NTS

Site Development | Residential | Infrastructure | Technology

REVISION DESCRIPTION

THIS DRAWING PREPARED AT THE  
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TEL 804-200-6500 | FAX 804-560-1016 | www.timmons.com



**ZION CROSSROADS SERVICE AREA  
MASTER PLAN**

Prepared for:

**Louisa County Water Authority  
P.O. Box 9  
Louisa, Virginia 23093**

Project Code: LCWA/ZIONMP

May 2004

*Revised: August 2004*

Prepared by:

***DEWBERRY***  
**Architects-Engineers-  
Planners-Surveyors**  
**9881 Mayland Drive; Suite 201  
Richmond, Virginia 23233**

**ZION CROSSROADS SERVICE AREA  
MASTER PLAN  
MAY 2004**

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3. Wastewater Treatment Plant: The collection system transports all the sewage to the influent pump station of the 0.10 MGD Wastewater Treatment Plant. The plant has been designed for three (3) specific stages in the development of the Zion Crossroads Service Area (0.10 MGD, 0.70 MGD, 1.5 MGD). The plant consists of an influent pump station, a sequencing batch reactor (SBR), an equalization basin, and ultra-violet (UV) disinfection. Stage two is planned to occur after the proposed Spring Creek Development is 100% complete. The future expansion of the plant will be able to handle 700,000 gallons per day or 0.70 MGD. This will involve changing the SBR to basin digesters, and installing primary clarifiers and an oxidation ditch. The influent pump station and UV disinfection are currently designed to handle 0.7 MGD. The third and final stage will increase plant capacity to 1.5 MGD and is planned to occur once the Zion Crossroads Service Area is completely developed. The influent pump station and UV disinfection will have to be expanded to handle ultimate flows of the Service Area. Construction of additional digesters, clarifiers and another oxidation ditch will also be required.

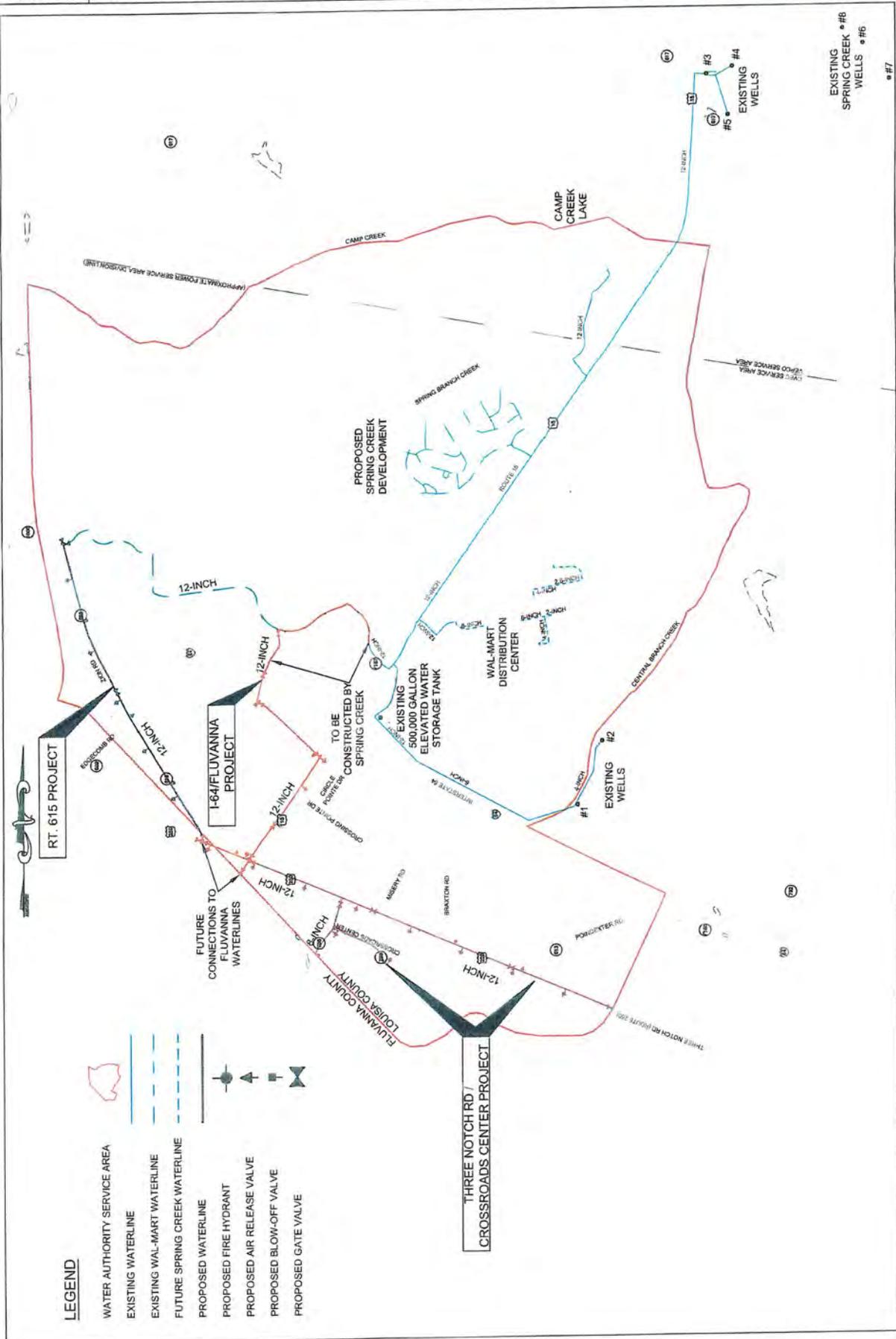
### III. PROPOSED IMPROVEMENTS

Based on the design water and sewer demands of the Service Area, different projects have been identified to support the anticipated growth and build-out of the Service Area.

#### A. Water System

Based on discussions with LCWA, the existing infrastructure, and anticipated growth of the service area, three (3) water system projects are projected for the planning area. These projects are located northwest, southwest, and southeast of the I-64/Route 15 interchange. The completion of the proposed projects will allow current property owners and future developers access to the public water system. Fire hydrants will be placed approximately every 1,000 linear feet when the waterline runs along roadways. Figure 5 shows the layout of the proposed water projects.

SHEET NO.	DATE	PROJ. NO.	LCWA/ZIONMMP
	MAY 2004	PROJECT ZION CROSSROADS SERVICE AREA	MASTER PLAN
TITLE	SCALE		
PROPOSED CONDITIONS WATER SYSTEM	1" = 1600'		



- LEGEND**
- WATER AUTHORITY SERVICE AREA
  - EXISTING WATERLINE
  - EXISTING WAL-MART WATERLINE
  - FUTURE SPRING CREEK WATERLINE
  - PROPOSED WATERLINE
  - PROPOSED FIRE HYDRANT
  - PROPOSED AIR RELEASE VALVE
  - PROPOSED BLOW-OFF VALVE
  - PROPOSED GATE VALVE

EXISTING SPRING CREEK WELLS  
 #1  
 #2  
 #3  
 #4  
 #5

FIG. 5

1. Northwest Quadrant: Spring Creek Development plans to construct approximately 8,065 linear feet of 12-inch waterline beginning at the Spring Creek Commercial Entrance and heading west toward Route 615. Approximately 2,907 linear feet of this Spring Creek line will be part of the *I-64/Fluvanna project*. LCWA will construct approximately 5,650 linear feet of 12-inch waterline to connect to the Spring Creek waterline, which will include a directional boring under the existing conservation easement and a horizontal boring under I-64. After passing under I-64, the waterline will travel east along I-64, then south along the western side of S.R. 15 to the intersection with S.R. 250. Once at S.R. 250, the proposed waterline will run south and west within VDOT right-of-way until ending at the Louisa / Fluvanna county line. The proposed waterline will connect to the *Route 615* and the *Three Notch Road/Crossroads Center projects*. It will also provide two stub-outs for possible future connection to Fluvanna waterlines on S.R. 15 and S.R. 250.

Spring Creek Development will construct all waterlines within the proposed development prior to deeding ownership to LCWA.

2. Northeast Quadrant: No projects are anticipated at this time.
3. Southwest Quadrant: The *Route 615 project* will construct approximately 5,770 linear feet of 12-inch waterline beginning at the intersection of S.R. 250 and Route 615, run along Route 615, under the I-64 overpass, and end at the connection point to the proposed Spring Creek 12-inch waterline.
4. Southeast Quadrant: The *Three Notch Road/Crossroads Center project* will construct approximately 6,300 linear feet of 12-inch waterline along S.R. 250 and approximately 2,090 linear feet of 8-inch waterline along Routes 795 and 796. The 12-inch waterline connects to the *I-64/Fluvanna project* and both 8-inch and 12-inch waterlines run within the VDOT right-of way.
5. Cost Estimate: Table 2 shows estimated construction and design costs for each of the proposed water projects. Construction cost includes 20% contingency to address project unknowns that may be identified during design. Design Costs are 10% of total construction cost. Detailed cost estimates can be found in the Appendix.

Table 2

Water Project	Construction Cost	Design Cost	Total Cost
I-64/Fluvanna*	\$ 692,424 (\$133,494)	\$ 69,242 (\$13,349)	\$ 761,666 (\$146,843)
Three Notch Rd / Crossroads Center	\$ 397,320	\$ 39,732	\$ 437,052
Rt. 615	\$ 270,540	\$ 27,054	\$ 297,594

\* Cost in ( ) shows portion of total cost to be borne by Spring Creek Development

## B. Sanitary Sewer System

The service area has been evaluated by topography and the sanitary sewer lines have been located to service the greatest area by gravity. Seven (7) sewer projects have been identified to support the anticipated growth and build-out of the Service Area. Figure 6 identifies each project. Sections and locations of some or all of the lines can be adjusted based on the actual development of the area. These projects will allow existing property owners to transfer from septic tanks to the public sanitary sewer system. It will also give future developers access to the public sewer system.

The service area has been divided into thirteen (13) drainage areas to determine the flows and sizes for each of the sewer lines in the seven (7) projects. In an attempt to decrease costs associated with construction, maintenance and operation of multiple pump stations, special attention was taken to ensure that the greatest amount of acreage could be serviced by gravity sewer. Based on this delineation and landuse zones, gravity sewer, forcemain, and pump station sizes were determined. Table 3 identifies the flow for each sewer and pipe sizes. Figure 7 shows the drainage areas and landuse zones.

1. Northwest Quadrant: The *S.R. 250, S.R. 15, I-64 project* constructs approximately 2,488 linear feet of 12-inch gravity sewer and 4,472 linear feet of 8-inch gravity sewer. It begins at the existing gravity sewer located in the Spring Creek Development and heads southwest toward I-64. Spring Creek Development will construct approximately 1,734 linear feet of the 12-inch waterline. LCWA will construct the remaining 754 linear feet, which includes a 306 linear foot horizontal boring to preserve the existing conservation easement and a 448 linear foot horizontal boring under I-64. Once on the south side of I-64, LCWA will construct the 8-inch gravity sewer, which follows I-64 east to S.R. 15. The gravity sewer will then extend south on S.R. 15, turning east at S.R. 250 with a horizontal bore under S.R. 15. The proposed sewer will extend approximately 800 linear feet east on S.R. 250.

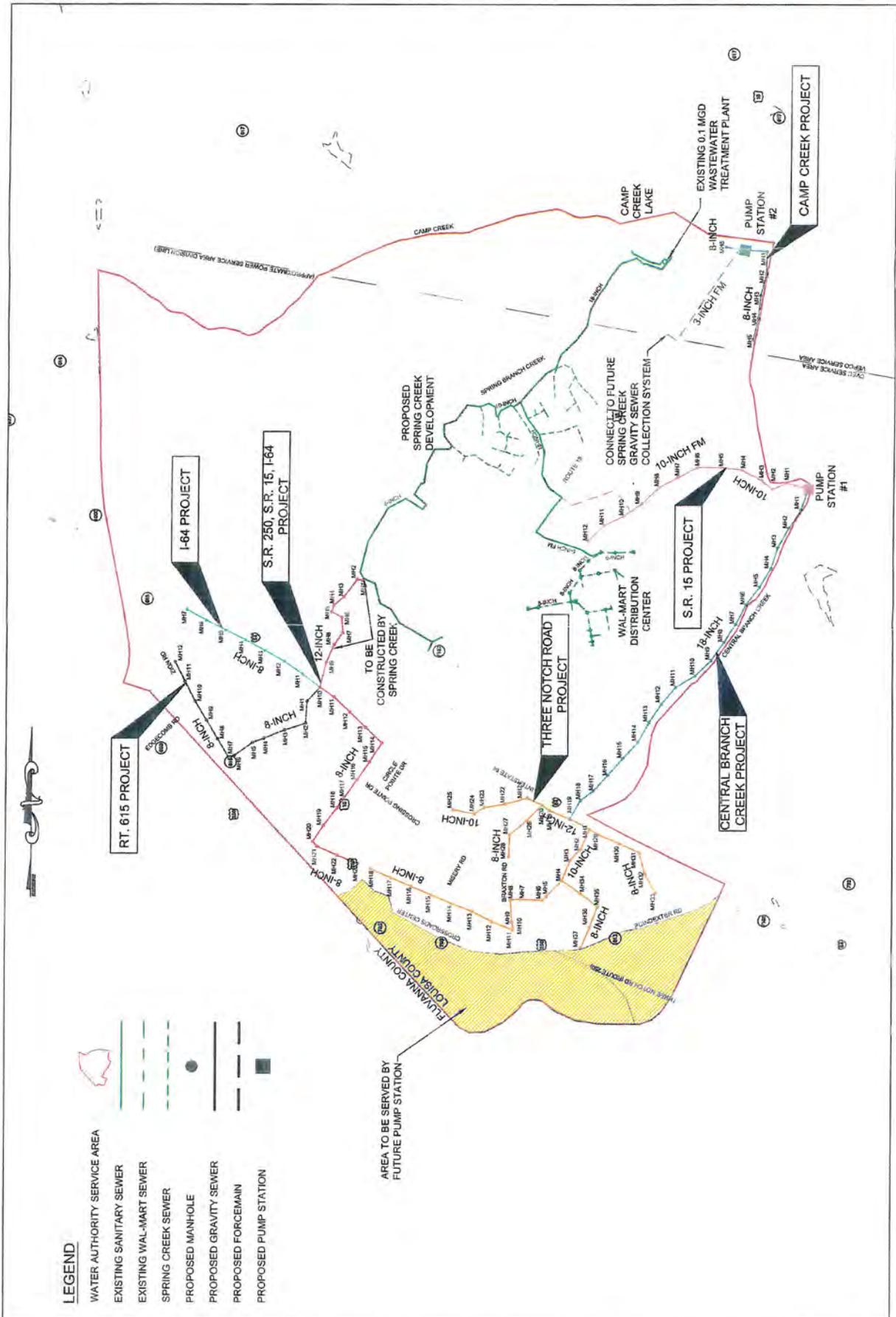


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DATE MAY 2004  
 SCALE 1" = 1600'  
 TITLE SANITARY SEWER SYSTEM

PROJECT ZION CROSSROADS SERVICE AREA  
 MASTER PLAN

FIG. 6  
 SHEET NO.



**LEGEND**

- WATER AUTHORITY SERVICE AREA
- EXISTING SANITARY SEWER
- EXISTING WAL-MART SEWER
- SPRING CREEK SEWER
- PROPOSED MANHOLE
- PROPOSED GRAVITY SEWER
- PROPOSED FORCEMAIN
- PROPOSED PUMP STATION

TABLE 3

ZION CROSSROADS MASTER PLAN								
LAND USE, WASTEWATER DEMANDS AND PIPE SIZES								
LINE	LOCATION			ULTIMATE BUILDOUT				
	FROM	TO	TYPE OF USE	ACERAGE	DEMAND	AVE. GPD	PEAK GPD	PIPE SIZE
S.R. 250, S.R. 15, I-64 PROJECT LINE 1	MH23	MH20	INDUSTRIAL	0.76	500	380		
			COMMERCIAL	18.27	1000	18,270		
	TOTAL					18,650	140,769	8
	MH20	MH10	MH23 TO MH20	TOTAL MH23 TO MH20		18,650		
			COMMERCIAL	32.96	1000	32,960		
	TOTAL					51,610	320,069	8
	MH10	MH9	MH20 TO MH10	TOTAL MH20 TO MH10		51,610		
			LINE 2	LINE 2 TOTAL		82,058		
			LINE 3	LINE 3 TOTAL		28,718		
	TOTAL					162,386	807,199	12
RT. 615 PROJECT LINE 2	MH9	EXMH	MH10 TO MH9	TOTAL MH10 TO MH9		162,386		
			AGRICULTURE	33.92	200	6,784		
			COMMERCIAL	1.76	1000	1,760		
	TOTAL					170,930	841,303	12
	MH12	MH4	RESIDENTIAL	71.23	200	14,246		
			AGRICULTURE	2.16	200	432		
			COMMERCIAL	11.73	1000	11,730		
	TOTAL					26,408	186,384	8
	MH4	MH10	MH12 TO MH4	TOTAL MH12 TO MH4		26,408		
			RESIDENTIAL	4.5	200	900		
		COMMERCIAL	54.75	1000	54,750			
TOTAL					82,058	465,333	8	
I-64 PROJECT LINE 3	MH7	MH10	RESIDENTIAL	16.26	200	3,252		
			AGRICULTURE	18.73	200	3,746		
			COMMERCIAL	21.72	1000	21,720		
	TOTAL					28,718	199,434	8
THREE NOTCH ROAD PROJECT LINE 4	MH18	MH4	INDUSTRIAL	29.84	500	14,920		
			COMMERCIAL	52	1000	52,000		
	TOTAL					66,920	394,722	8
	MH37	MH4	COMMERCIAL	25	1000	25,000		
	TOTAL					25,000	178,322	8
	MH4	MH1	MH18 TO MH4	TOTAL MH18 TO MH4		66,920		
			MH37 TO MH4	TOTAL MH37 TO MH4		25,000		
			COMMERCIAL	18.8	1000	18,800		
	TOTAL					110,720	592,596	10
	MH33	MH1	COMMERCIAL	38.7	1000	38,700		
	TOTAL					38,700	253,718	8
	MH1	MH19	MH4 TO MH1	TOTAL MH4 TO MH1		110,720		
			MH33 TO MH1	TOTAL MH33 TO MH1		38,700		
			COMMERCIAL	3	1000	3,000		
	TOTAL					152,420	766,978	12
	MH25	MH20	COMMERCIAL	111.07	1000	111,070		
TOTAL					111,070	594,107	10	
MH28	MH20	COMMERCIAL	30.7	1000	30,700			
TOTAL					30,700	210,469	8	
MH20	MH19	MH25 TO MH20	TOTAL MH25 TO MH20		111,070			
		MH28 TO MH20	TOTAL MH28 TO MH20		30,700			
		COMMERCIAL	5	1000	5,000			
TOTAL					146,770	743,951	12	
CENTRAL BRANCH CREEK PROJECT LINE 5	MH19	PS#1	LINE 4	LINE 4 TOTAL		299,190		
			INDUSTRIAL	241.85	500	120,925		
	TOTAL					420,115	1,738,306	18
S.R. 15 PROJECT LINE 6	MH12	PS#1	COMMERCIAL	24.93	1000	24,930		
			RESORT	0.12	260	31.2		
			INDUSTRIAL	200.03	500	100,015		
	TOTAL					124,976	653,443	10
			PUMP STATION #1	TOTAL FLOWS TO PS#1		545,091	1,362,728	10
CAMP CREEK PROJECT LINE 7	MH5	PS#2	INDUSTRIAL	50.48	500	25,240		
	TOTAL					25,240	179,703	8
	MH6	PS#2	RESORT	4.7	260	1,222.0		
			AGRICULTURE	13.49	200	2,698		
	TOTAL					3,920	39,981	8
		PUMP STATION #2	TOTAL FLOWS TO PS#2		29,160	72,900	3	

NOTE: A PEAKING FACTOR OF 2.5 IS USED ON PUMP STATION FLOWS TO SIZE FORCEMAINS. ALL OTHER FLOWS ARE PEAKED USING FORM F-2 FROM THE COUNTY OF HENRICO PUBLIC UTILITIES. ALL PIPES ARE SIZED WITH MINIMUM SLOPES PER THE VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY SEWAGE COLLECTION AND TREATMENT REGULATIONS.



## **APPENDIX C – Outputs and Results**

- 1. Demand Projections, Water and Wastewater (2 pages)**
- 2. Water Model Results (6 pages)**
- 3. Storage Capacity Analysis (10 pages)**
- 4. Force Main Size Determination – Primary Line (2 pages)**
- 5. Cost Estimates, Initial Water and Sewer Phases (4 pages)**

Zion Crossroad Service Area - Water and Wastewater Demand Projections (1/12/15) - Normal Demands

Service Area	Total Area (acres)	ROW	Total Area (minus ROW)	Undevelopable Area (C)	Developable Land (acres)	Assumed Land Use	Developable (acres)	Unit Flow (gpd/ac)	Total Avg. Flow (GPD) - Full Buildout	Total Avg. Flow (GPD) - 50% Buildout
1-A	273	17	256	12	244	Existing DOC R-1 I/OI	130 20 93	0 500 800	0 10,247 74,369	0 5,123 37,184
Sub-Area 1-A Subtotal										
1-B	111	7	103	22	81	Existing R-1 I/OI	49 19 13	100 500 800	4,875 9,728 10,383	2,437 4,864 5,191
Sub-Area 1-B Subtotal										
1-C	433	36	397	98	299	Existing R-1 RC OS	33 246 5 15	100 500 1000 800	3,266 123,107 5,210 12,162	1,633 61,554 2,605 6,081
Sub-Area 1-C Subtotal										
1-D	395	45	350	41	309	Existing RM1 OS	49 149 111	100 1500 800	4,875 223,748 89,055	2,438 111,874 44,527
Sub-Area 1-D Subtotal										
<b>Service Area 1 Total</b>	<b>1212</b>	<b>106</b>	<b>1106</b>	<b>173</b>	<b>933</b>		<b>933</b>		<b>571,023</b>	<b>285,512</b>
2-A	732	22	710	235	475	Existing OS RC I/OI R-1	42 30 15 135 253	100 800 1000 800 500	4,203 24,304 14,623 108,263 126,426	2,102 12,152 7,312 54,131 63,213
Sub-Area 2-A Subtotal										
2-B	494	17	476	73	403	Existing OS RC I/OI R-1	50 43 36 9 266	100 800 1000 800 500	5,003 34,192 36,339 6,871 133,111	2,502 17,096 18,170 3,435 66,555
Sub-Area 2-B Subtotal										
2-C	218	8	210	10	199	Existing R-1 I/OI	22 108 71	100 500 800	2,163 54,005 56,995	1,082 27,003 28,498
Sub-Area 2-C Subtotal										
<b>Service Area 2 Total</b>	<b>1444</b>	<b>47</b>	<b>1396</b>	<b>319</b>	<b>1077</b>		<b>1,080</b>		<b>606,501</b>	<b>303,250</b>
3-A	357	11	346	113	233	Existing R-1 I-1	58 176 0	100 500 800	5,759 87,793 0	2,880 43,896 0
Sub-Area 3-A Subtotal										
3-B	261	14	247	45	202	Existing OS I/OI	28 13 166	100 800 800	2,758 10,524 132,451	1,379 5,262 66,225
Sub-Area 3-B Subtotal										
3-C	118	11	107	26	80	Existing OS I/OI R-1	0 37 25 19	100 800 800 500	0 29,730 19,752 9,354	0 14,865 9,876 4,677
Sub-Area 3-C Subtotal										
3-D	597	2	595	157	438	Existing OS R-1	12 17 409	100 800 500	58,836 1,178 13,378	29,418 589 6,689
Sub-Area 3-D Subtotal										
<b>Service Area 3 Total</b>	<b>1333</b>	<b>38</b>	<b>1295</b>	<b>342</b>	<b>953</b>		<b>958</b>		<b>517,420</b>	<b>258,710</b>
4-A	682	125	557	200	357	Existing OS RC I/OI R-1	82 31 40 176 27	100 800 1000 800 500	8,241 24,651 40,318 140,859 13,598	4,120 12,325 20,159 70,430 6,799
Sub-Area 4 Subtotal										
<b>Service Area 4 Total</b>	<b>682</b>	<b>125</b>	<b>557</b>	<b>200</b>	<b>357</b>		<b>357</b>		<b>227,667</b>	<b>113,834</b>
<b>Total, SA (1 thru 4)</b>	<b>4670</b>	<b>316</b>	<b>4354</b>	<b>1034</b>	<b>3321</b>		<b>3,328</b>		<b>1,922,611</b>	<b>961,306</b>

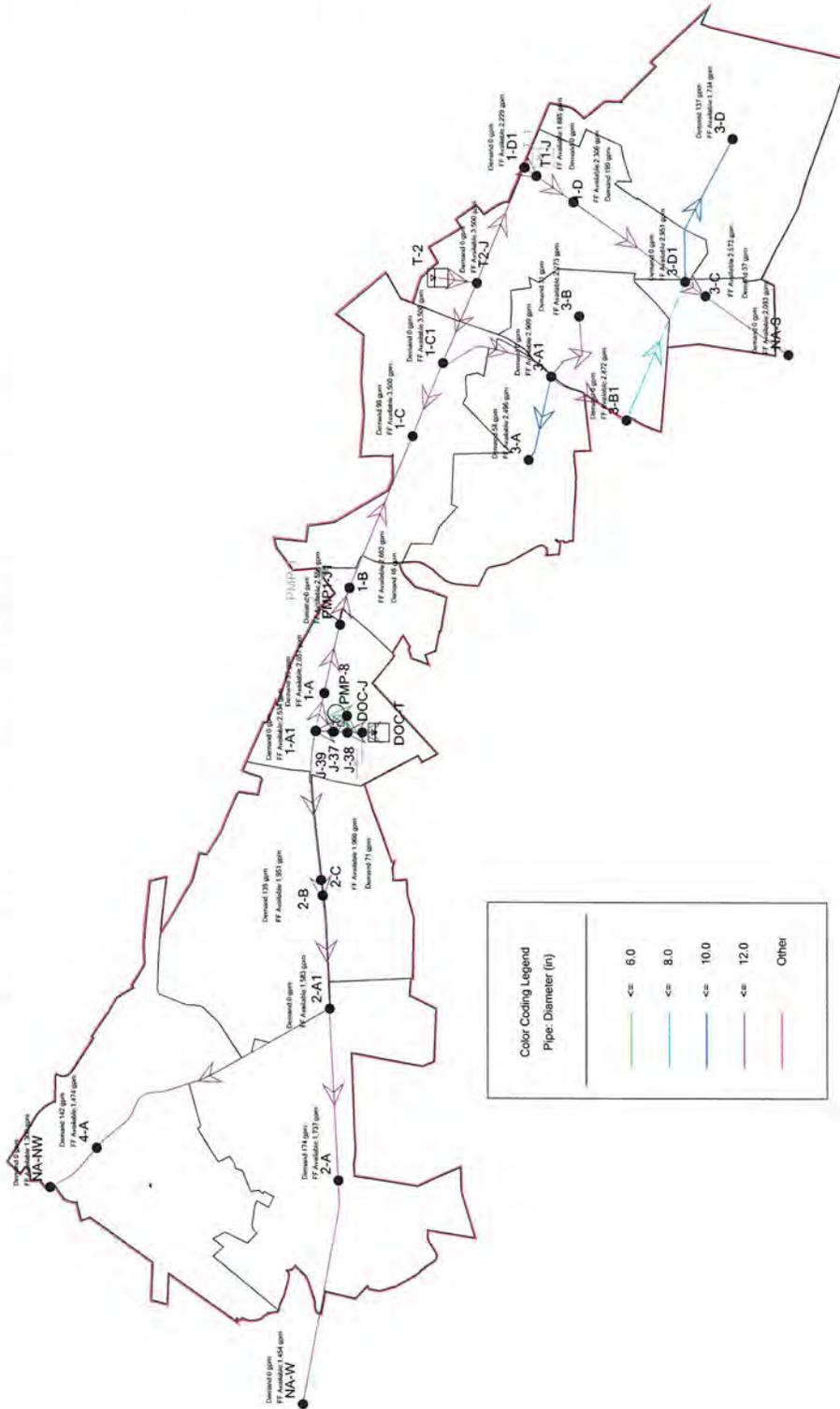
Zion Crossroad Service Area - Water and Wastewater Demand Projections (1/12/15) - Upper Demands

Service Area	Total Area (acres)	ROW	Total Area (minus ROW)	Undevelopable Area (C)	Developable Land (acres)	Assumed Land Use	Developable (acres)	Unit Flow (gpd/ac)	Total Avg. Flow (GPD) - Full Buildout	Total Avg. Flow (GPD) - 50% Buildout
1-A	273	17	256	12	244	Existing DOC R-2 I/OI2	130 20 93	0 800 1200	0 16,395 111,553	0 8,197 55,777
Sub-Area 1-A Subtotal										
1-B	111	7	103	22	81	Existing R-2 I/OI2	49 19 13	100 800 1200	4,875 15,565 15,574	2,437 7,782 7,787
Sub-Area 1-B Subtotal										
1-C	433	36	397	98	299	Existing R-2 RC OS	33 246 5 15	100 800 1000 800	3,266 196,972 5,210 12,162	1,633 98,486 2,605 6,081
Sub-Area 1-C Subtotal										
1-D	395	45	350	41	309	Existing RM2 OS	49 149 111	100 2000 800	4,875 298,330 89,055	2,438 149,165 44,527
Sub-Area 1-D Subtotal										
<b>Service Area 1 Total</b>	<b>1212</b>	<b>106</b>	<b>1106</b>	<b>173</b>	<b>933</b>		<b>933</b>		<b>773,831</b>	<b>386,915</b>
2-A	732	22	710	235	475	Existing OS RC I/OI2 R-2	42 30 15 135 253	100 800 1000 1200 800	4,203 24,304 14,623 162,394 202,281	2,102 12,152 7,312 81,197 101,141
Sub-Area 2-A Subtotal										
2-B	494	17	476	73	403	Existing OS RC I/OI2 R-2	50 43 36 9 266	100 800 1000 1200 800	5,003 34,192 36,339 10,306 212,977	2,502 17,096 18,170 5,153 106,489
Sub-Area 2-B Subtotal										
2-C	218	8	210	10	199	Existing R-2 I/OI2	22 108 71	100 800 1200	2,163 86,409 85,493	1,082 43,204 42,746
Sub-Area 2-C Subtotal										
<b>Service Area 2 Total</b>	<b>1444</b>	<b>47</b>	<b>1396</b>	<b>319</b>	<b>1077</b>		<b>1,080</b>		<b>880,690</b>	<b>440,345</b>
3-A	357	11	346	113	233	Existing R-2 I-1	58 176 0	100 800 800	5,759 140,468 0	2,880 70,234 0
Sub-Area 3-A Subtotal										
3-B	261	14	247	45	202	Existing OS I/OI2	28 13 166	100 800 1200	2,758 10,524 198,676	1,379 5,262 99,338
Sub-Area 3-B Subtotal										
3-C	118	11	107	26	80	Existing OS I/OI2 R-2	0 37 25 19	100 800 1200 800	0 29,730 29,627 14,967	0 14,865 14,814 7,484
Sub-Area 3-C Subtotal										
3-D	597	2	595	157	438	Existing OS R-2	12 17 409	100 800 800	1,178 13,378 327,591	589 6,689 163,795
Sub-Area 3-D Subtotal										
<b>Service Area 3 Total</b>	<b>1333</b>	<b>38</b>	<b>1295</b>	<b>342</b>	<b>953</b>		<b>958</b>		<b>774,656</b>	<b>387,328</b>
4-A	682	125	557	200	357	Existing OS RC I/OI2 R-2	82 31 40 176 27	100 800 1000 1200 800	8,241 24,651 40,318 211,289 21,758	4,120 12,325 20,159 105,645 10,879
Sub-Area 4 Subtotal										
<b>Service Area 4 Total</b>	<b>682</b>	<b>125</b>	<b>557</b>	<b>200</b>	<b>357</b>		<b>357</b>		<b>306,256</b>	<b>153,128</b>
<b>Total, SA (1 thru 4)</b>	<b>4670</b>	<b>316</b>	<b>4354</b>	<b>1034</b>	<b>3321</b>		<b>3,328</b>		<b>2,735,433</b>	<b>1,367,717</b>



## 2. Water Model Results

**Scenario: 50% Buildout + Fireflow + DOC Booster Sta**



Color Coding Legend	
Pipe Diameter (in)	
Green	<= 6.0
Blue	<= 8.0
Light Blue	<= 10.0
Purple	<= 12.0
Red	Other

50% Buildout + Fire Flow + Zones Connected+ DOC with Booster Sta Scenario: Pipe Table

Label	Diameter (in)	Length (ft)	Hazen-Williams C	Start Node	Stop Node	Material	Flow (gpm)	Velocity (ft/s)	Travel Time (hrs)
250.6	12	392	120	2-B	2-C	PVC	-451	1.28	0.085
250.9	12	5,724	120	2-A	NA-W	PVC	0	0	(N/A)
15.2	12	639	120	3-C	3-D1	PVC	-37	0.1	1.691
250.4	12	983	120	1-A1	1-A	PVC	74	0.21	1.298
15.1	12	3,488	120	1-D	3-D1	PVC	96	0.27	3.562
799.1	12	1,554	120	NA-NW	4-A	PVC	0	0	(N/A)
15.3	12	2,583	120	NA-S	3-C	PVC	0	0	(N/A)
631	12	3,084	120	3-A1	1-C1	PVC	-167	0.47	1.807
631E	12	1,992	120	3-A1	3-B	PVC	31	0.09	6.291
799	12	7,079	120	4-A	2-A1	PVC	-142	0.4	4.881
250.1	12	2,004	120	1-C	1-C1	PVC	-85	0.24	2.313
631W	10	2,197	120	3-A1	3-A	PVC	58	0.24	2.575
631.1	12	2,228	120	3-B1	3-A1	PVC	-78	0.22	2.793
250.7	12	2,862	120	2-A1	2-B	PVC	-316	0.9	0.887
250.5	12	3,794	120	2-C	1-A1	PVC	-522	1.48	0.712
15E	10	3,905	120	3-D1	3-D	PVC	137	0.56	1.938
15W	8	3,805	120	3-B1	3-D1	PVC	78	0.5	2.12
250.2	12	4,165	120	1-B	1-C	PVC	5	0.01	78.708
250.8	12	4,333	120	2-A	2-A1	PVC	-174	0.49	2.438
P-20	12	1,778	120	1-A	PMP1-J1	PVC	21	0.06	8.218
P-21	12	964	120	PMP1-J1	1-B	PVC	21	0.06	4.457
P-22	8	757	120	PMP1-J1	PMP-1	PVC	(N/A)	(N/A)	(N/A)
P-23	8	987	120	PMP-1	PMP1-J2	PVC	(N/A)	(N/A)	(N/A)
P-24	12	3,298	120	1-D1	T2-J	PVC	-295	0.84	1.095
P-25	12	2,193	120	T2-J	1-C1	PVC	252	0.71	0.852
P-26	12	1,008	120	T2-J	T-2	PVC	-547	1.55	0.18
P-27	12	1,149	120	T1-J	1-D	PVC	295	0.84	0.381
P-28	12	366	120	1-D1	T1-J	PVC	295	0.84	0.121
P-29	8	490	120	T1-J	T-1	PVC	(N/A)	(N/A)	(N/A)
P-31	8	774	120	PMP1-J2	1-B	PVC	(N/A)	(N/A)	(N/A)
P-34	12	796	120	DOC-R	DOC-J	PVC	(N/A)	(N/A)	(N/A)
P-36	12	423	120	DOC-J	DOC-T	PVC	-596	1.69	0.002
P-40	12	450	120	J-37	1-A1	PVC	596	1.69	0.074
P-41	12	378	120	DOC-J	J-38	PVC	596	1.69	0.062
P-42	12	356	120	J-38	J-37	PVC	(N/A)	(N/A)	(N/A)
P-43	6	426	130	J-38	J-39	Ductile Iron	596	6.76	0.018
P-44	6	320	130	J-39	PMP-8	Ductile Iron	596	6.76	0.013
P-45	6	427	130	PMP-8	J-37	Ductile Iron	596	6.76	0.018

(N/A) = inactive  
 neg sign (-) = flow going in the opposite direction than the pipe was drawn

**50% Buildout + Fire Flow + Zones Connected + DOC  
with Booster Sta Scenario: Junctions Table**

Label	Zone	Elevation (ft)	Demand (gpm)	Pressure (psi)	Hydraulic Grade (ft)
3-D	East	452	137	82.3	642.22
3-B1	East	488	0	67.3	643.64
1-D1	East	544	0	43.1	643.52
1-C1	East	476	0	72.7	644.03
2-A1	West	456	0	79.3	639.39
NA-W	West	408	0	99.9	638.89
NA-NW	West	444	0	84.3	638.83
1-D	East	528	199	49.8	643.06
3-B	East	508	31	58.7	643.69
3-A	East	436	58	89.8	643.62
3-A1	East	504	0	60.4	643.7
1-C	East	476	90	72.7	643.97
1-B	East	476	16	72.7	643.97
1-A	West	452	53	83.1	643.98
1-A1	West	456	0	81.3	644
2-C	West	444	71	85.1	640.65
2-B	West	440	135	86.7	640.39
2-A	West	392	174	106.8	638.89
4-A	West	420	142	94.7	638.83
3-C	East	480	37	70.5	642.92
3-D1	East	464	0	77.4	642.92
NA-S	East	484	0	68.8	642.92
PMP1-J1	West	476	0	72.7	643.97
PMP1-J2	West	500	(N/A)	(N/A)	(N/A)
T2-J	East	508	0	59.1	644.53
T1-J	East	554	0	38.7	643.41
DOC-J	West	550.52	0	21.4	599.99
J-37	<None>	491.97	0	66	644.51
J-38	<None>	520.35	0	34.3	599.56
J-39	<None>	450	0	59.5	587.43

50% Buildout + Fire Flow + Zones Connected+ DOC with Booster Sta Scenario: Fire Flow Table

Label	Zone	Elevation (ft)	Demand (gpm)	Satisfies Fire Flow Constraints?	Fire Flow (Needed, gpm)	Fire Flow (Available, gpm)	Junction w/ Minimum Pressure (System)	Pressure (Calculated System Lower Limit, psi)
3-D	East	452	137	TRUE	1,000	1,734	DOC-J	21.4
3-B1	East	488	0	TRUE	1,000	2,872	DOC-J	21.4
1-D1	East	544	0	TRUE	1,000	2,229	T1-J	15.7
1-C1	East	476	0	TRUE	1,000	3,500	T1-J	21.1
2-A1	West	456	0	TRUE	1,000	1,583	DOC-J	21.4
NA-W	West	408	0	TRUE	1,000	1,454	DOC-J	21.4
NA-NW	West	444	0	TRUE	1,000	1,300	DOC-J	21.4
1-D	East	528	199	TRUE	1,000	2,306	T1-J	14.1
3-B	East	508	31	TRUE	1,000	2,273	DOC-J	21.4
3-A	East	436	58	TRUE	1,000	2,496	DOC-J	21.4
3-A1	East	504	0	TRUE	1,000	2,909	3-B	18.3
1-C	East	476	90	TRUE	1,000	3,500	J-37	16.6
1-B	East	476	16	TRUE	1,000	2,662	J-37	15
1-A	West	452	53	TRUE	1,000	2,657	J-37	3.9
1-A1	West	456	0	TRUE	1,000	2,534	J-37	5.2
2-C	West	444	71	TRUE	1,000	1,966	2-A1	14.3
2-B	West	440	135	TRUE	1,000	1,951	2-A1	12.6
2-A	West	392	174	TRUE	1,000	1,737	2-A1	10.6
4-A	West	420	142	TRUE	1,000	1,474	NA-NW	9.6
3-C	East	480	37	TRUE	1,000	2,573	T1-J	12.2
3-D1	East	464	0	TRUE	1,000	2,951	T1-J	5.6
NA-S	East	484	0	TRUE	1,000	2,093	T1-J	19.6
PMP1-J1	West	476	0	TRUE	1,000	2,550	J-37	14.7
PMP1-J2	West	500	(N/A)	(N/A)	1,000	(N/A)	(N/A)	(N/A)
T2-J	East	508	0	TRUE	1,000	3,500	DOC-J	21.4
T1-J	East	554	0	TRUE	1,000	1,885	DOC-J	21.4
DOC-J	West	550.52	0	TRUE	1,000	3,500	J-38	34.1
J-37	<None>	491.97	0	TRUE	1,000	2,111	DOC-J	21.4
J-38	<None>	520.35	0	TRUE	1,000	3,500	DOC-J	21.2
J-39	<None>	450	0	TRUE	1,000	2,142	DOC-J	21.4

**50% Buildout + Fire Flow + Zones Connected+ DOC with Booster Sta Scenario: Tanks Table**

Label	Zone	Elevation (Base) (ft)	Elevation (Minimum) (ft)	Elevation (Initial) (ft)	Elevation (Maximum) (ft)	Diameter (ft)	Flow (Out Net) (gpm)	Hydraulic Grade (ft)
T-2	East	508	628	645.5	663	50	547	645.5

50% Buildout + Fire Flow + Zones Connected+ DOC with Booster Sta Scenario: Pumps Table						
Label	Elevation (ft)	Status (Initial)	Hydraulic Grade (Suction) (ft)	Hydraulic Grade (Discharge) (ft)	Flow (Total) (gpm)	Pump Head (ft)
PMP-8	491.97	On	578.32	656.65	596	78.33

Pump Curve: PMP-8 (Booster Station)

	Flow (gpm)	Head (ft)
Shutoff:	0	104
Design:	600	78
Max. Operating:	1,200	0



### 3. STORAGE CAPACITY ANALYSIS

#### REQUIRED STORAGE CAPACITY (NORMAL DEMANDS)

	10% Build-Out	50% Build-Out	100% Build-Out
1. FIRE FLOW (Industrial or Domestic/Commercial) Domestic/Commercial: 1,500 gpm @ 2 hours	180,000 gallons	180,000 gallons	180,000 gallons
2. EQUALIZATION Peak Hour Storage Analysis	80,000 gallons	420,000 gallons	840,000 gallons
3. EMERGENCY 15% (Future) Peak Day Flow	50,000 gallons	260,000 gallons	520,000 gallons
<b>TOTAL REQUIRED STORAGE</b>	<b>310,000 gallons</b>	<b>860,000 gallons</b>	<b>1,540,000 gallons</b>

Zion Crossroad Service Area - Water Storage Capacity Analysis - Normal Demands (3/16/15)

Service Area	Total Area (acres)	Developable (acres)	Unit Flow (gpd/ac)	Total Avg. Flow (GPD) - Full Buildout	Total Max Day Flow (GPD)	Total Max Day Flow (gpm)	Total Avg. Flow (GPD) - 50% Buildout	Total Max Day Flow 50% (GPD)	Total Max Day Flow 50% (gpm)	Total Avg. Flow (GPD) - 10% Buildout	Total Max Day Flow 10% (GPD)	Total Max Day Flow 10% (gpm)
				(Full Bldout)	(Full Bldout)	(Full Bldout)	(Full Bldout)	(Full Bldout)	(Full Bldout)	(Full Bldout)		
1-A	273	130	0	0	0	0	0	0	0	0	0	0
		20	500	10,247	18,444	13	5,123	9,222	6	1,025	1,844	1
		93	800	74,369	133,864	93	37,184	66,932	46	7,437	13,386	9
		244		84,616	152,309	106	42,308	76,154	53	8,462	15,231	11
1-B	111	49	100	4,875	8,774	6	2,437	4,387	3	487	877	1
		19	500	9,728	17,511	12	4,864	8,755	6	973	1,751	1
		13	800	10,383	18,689	13	5,191	9,344	6	1,038	1,869	1
		81		24,985	44,974	31	12,493	22,487	16	2,499	4,497	3
1-C	433	33	100	3,266	5,878	4	1,633	2,939	2	327	588	0
		246	500	123,107	221,593	154	61,554	110,797	77	12,311	22,159	15
		5	1000	5,210	9,378	7	2,605	4,689	3	521	938	1
		15	800	12,162	21,891	15	6,081	10,945	8	1,216	2,189	2
1-D	395	299		143,745	258,740	180	71,872	129,370	90	14,374	25,874	18
		49	100	4,875	8,775	6	2,438	4,388	3	488	878	1
		149	1500	223,748	402,746	280	111,874	201,373	140	22,375	40,275	28
		111	800	89,055	160,299	111	44,527	80,149	56	8,905	16,030	11
<b>Service Area 1 Total</b>		<b>1212</b>	<b>933</b>	<b>571,023</b>	<b>1,027,842</b>	<b>714</b>	<b>285,512</b>	<b>513,921</b>	<b>357</b>	<b>57,102</b>	<b>102,784</b>	<b>71</b>
2-A	732	42	100	4,203	7,566	5	2,102	3,783	3	420	757	1
		30	800	24,304	43,748	30	12,152	21,874	15	2,430	4,375	3
		15	1000	14,623	26,322	18	7,312	13,161	9	1,462	2,632	2
		135	800	108,263	194,873	135	54,131	97,437	68	10,826	19,487	14
		253	500	126,426	227,567	158	63,213	113,783	79	12,643	22,757	16
2-B	494	475		277,820	500,075	347	138,910	250,038	174	27,782	50,008	35
		50	100	5,003	9,006	6	2,502	4,503	3	500	901	1
		43	800	34,192	61,546	43	17,096	30,773	21	3,419	6,155	4
		36	1000	36,339	65,411	45	18,170	32,705	23	3,634	6,541	5
		9	800	6,871	12,367	9	3,435	6,184	4	687	1,237	1
2-C	218	266	500	133,111	239,600	166	66,555	119,800	83	13,311	23,960	17
		404		215,517	387,930	269	107,758	193,965	135	21,552	38,793	27
		22	100	2,163	3,894	3	1,082	1,947	1	216	389	0
		108	500	54,005	97,210	68	27,003	48,605	34	5,401	9,721	7
<b>Service Area 2 Total</b>		<b>1444</b>	<b>1,080</b>	<b>606,501</b>	<b>1,091,701</b>	<b>758</b>	<b>303,250</b>	<b>545,851</b>	<b>379</b>	<b>60,650</b>	<b>109,170</b>	<b>76</b>
3-A	357	71	800	56,995	102,591	71	28,498	51,296	36	5,700	10,259	7
		201		113,164	203,696	141	56,582	101,848	71	11,316	20,370	14
		58	100	5,759	10,367	7	2,880	5,183	4	576	1,037	1
3-B	261	176	500	87,793	158,027	110	43,896	79,013	55	8,779	15,803	11
		0	800	0	0	0	0	0	0	0	0	0
		233		93,552	168,393	117	46,776	84,197	58	9,355	16,839	12
		28	100	2,758	4,964	3	1,379	2,482	2	276	496	0
3-C	118	13	800	10,524	18,942	13	5,262	9,471	7	1,052	1,894	1
		166	800	132,451	238,411	166	66,225	119,206	83	13,245	23,841	17
		206		145,732	262,318	182	72,866	131,159	91	14,573	26,232	18
3-D	597	0	100	0	0	0	0	0	0	0	0	0
		37	800	29,730	53,515	37	14,865	26,757	19	2,973	5,351	4
		25	800	19,752	35,553	25	9,876	17,776	12	1,975	3,555	2
		19	500	9,354	16,838	12	4,677	8,419	6	935	1,684	1
4-A	682	81		58,836	105,905	74	29,418	52,953	37	5,884	10,591	7
		12	100	1,178	2,120	1	589	1,060	1	118	212	0
		17	800	13,378	24,080	17	6,689	12,040	8	1,338	2,408	2
<b>Service Area 3 Total</b>		<b>1333</b>	<b>958</b>	<b>517,420</b>	<b>931,356</b>	<b>647</b>	<b>258,710</b>	<b>465,678</b>	<b>323</b>	<b>51,742</b>	<b>93,136</b>	<b>65</b>
4-A	682	409	500	204,744	368,539	256	102,372	184,270	128	20,474	36,854	26
		438		219,300	394,740	274	109,650	197,370	137	21,930	39,474	27
		82	100	8,241	14,833	10	4,120	7,416	5	824	1,483	1
		31	800	24,651	44,371	31	12,325	22,186	15	2,465	4,437	3
4-A	682	40	1000	40,318	72,573	50	20,159	36,286	25	4,032	7,257	5
		176	800	140,859	253,547	176	70,430	126,774	88	14,086	25,355	18
<b>Service Area 4 Total</b>		<b>357</b>	<b>357</b>	<b>227,667</b>	<b>409,801</b>	<b>285</b>	<b>113,834</b>	<b>204,901</b>	<b>142</b>	<b>22,767</b>	<b>40,980</b>	<b>28</b>
<b>Total, SA (1 thru 4)</b>		<b>4670</b>	<b>3,328</b>	<b>1,922,611</b>	<b>3,460,700</b>	<b>2,403</b>	<b>961,306</b>	<b>1,730,350</b>	<b>1,202</b>	<b>192,261</b>	<b>346,070</b>	<b>240</b>

**ZION CROSSROADS SERVICE AREA - FLUVANNA COUNTY (10% BUILDOUT NORMAL)**

**DETERMINE REQUIRED PEAK HOUR STORAGE**

Use Typical Diurnal Demand Curve

Time	Water Use/ Dwelling	Normalized Demand	Gallons/ Hour	Cumulative Use (gal)	Cumulative Average (gal)	Difference (gal)
12 AM	160	0.23	3,311	3,311	14,420	11,109
1 AM	50	0.07	1,035	4,345	28,839	24,494
2 AM	55	0.08	1,138	5,483	43,259	37,775
3 AM	50	0.07	1,035	6,518	57,678	51,160
4 AM	60	0.09	1,242	7,759	72,098	64,338
5 AM	200	0.29	4,138	11,898	86,517	74,620
6 AM	340	0.49	7,035	18,933	100,937	82,004
7 AM	580	0.83	12,001	30,934	115,357	84,422
8 AM	750	1.08	15,519	46,453	129,776	83,323
9 AM	960	1.38	19,864	66,317	144,196	77,879
10 AM	700	1.00	14,484	80,801	158,615	77,814
11 AM	1,170	1.68	24,209	105,011	173,035	68,024
12 PM	740	1.06	15,312	120,323	187,455	67,132
1 PM	660	0.95	13,657	133,979	201,874	67,895
2 PM	730	1.05	15,105	149,084	216,294	67,209
3 PM	630	0.90	13,036	162,120	230,713	68,593
4 PM	1,240	1.78	25,658	187,778	245,133	57,355
5 PM	1,340	1.92	27,727	215,505	259,552	44,048
6 PM	1,560	2.24	32,279	247,784	273,972	26,188
7 PM	1,470	2.11	30,417	278,201	288,392	10,191
8 PM	1,470	2.11	30,417	308,618	302,811	5,807
9 PM	1,110	1.59	22,968	331,586	317,231	14,355
10 PM	410	0.59	8,484	340,069	331,650	8,419
11 PM	290	0.42	6,001	346,070	346,070	0

Average      696.875      1.00      Maximum = 84,422

(50% Buildout) Peak Day Flow =      240      gpm      (average flow on a peak day)  
 Equalization Storage Req'd =      84,422      gallons  
    say      80,000      gallons

**ZION CROSSROADS SERVICE AREA - FLUVANNA COUNTY (50% BUILDOUT NORMAL)**

Use Typical Diurnal Demand Curve

Time	Water Use/ Dwelling	Normalized Demand	Gallons/ Hour	Cumulative Use (gal)	Cumulative Average (gal)	Difference (gal)
12 AM	160	0.23	16,553	16,553	72,098	55,544
1 AM	50	0.07	5,173	21,726	144,196	122,469
2 AM	55	0.08	5,690	27,417	216,294	188,877
3 AM	50	0.07	5,173	32,590	288,392	255,802
4 AM	60	0.09	6,208	38,797	360,490	321,692
5 AM	200	0.29	20,692	59,489	432,587	373,099
6 AM	340	0.49	35,176	94,665	504,685	410,021
7 AM	580	0.83	60,006	154,671	576,783	422,112
8 AM	750	1.08	77,594	232,265	648,881	416,616
9 AM	960	1.38	99,321	331,586	720,979	389,393
10 AM	700	1.00	72,421	404,007	793,077	389,070
11 AM	1,170	1.68	121,047	525,054	865,175	340,121
12 PM	740	1.06	76,560	601,613	937,273	335,659
1 PM	660	0.95	68,283	669,896	1,009,371	339,474
2 PM	730	1.05	75,525	745,421	1,081,469	336,047
3 PM	630	0.90	65,179	810,600	1,153,567	342,966
4 PM	1,240	1.78	128,289	938,889	1,225,665	286,775
5 PM	1,340	1.92	138,635	1,077,524	1,297,762	220,238
6 PM	1,560	2.24	161,396	1,238,920	1,369,860	130,940
7 PM	1,470	2.11	152,085	1,391,005	1,441,958	50,954
8 PM	1,470	2.11	152,085	1,543,089	1,514,056	29,033
9 PM	1,110	1.59	114,839	1,657,929	1,586,154	71,775
10 PM	410	0.59	42,418	1,700,347	1,658,252	42,095
11 PM	290	0.42	30,003	1,730,350	1,730,350	0

Average 696.875

1.00

Maximum = 422,112

(50% Buildout) Peak Day Flow = 1,202 gpm (average flow on a peak day)  
 Equalization Storage Req'd = 422,112 gallons  
 say 420,000 gallons

**ZION CROSSROADS SERVICE AREA - FLUVANNA COUNTY (100% BUILDOUT NORMAL)**

Use Typical Diurnal Demand Curve

Time	Water Use/ Day	Normalized Demand	Gallons/ Hour	Cumulative (gal)	Cumulative Average (gal)	Difference (gal)
12 AM	160	0.23	33,107	33,107	144,196	111,089
1 AM	50	0.07	10,346	43,453	288,392	244,939
2 AM	55	0.08	11,380	54,833	432,587	377,754
3 AM	50	0.07	10,346	65,179	576,783	511,604
4 AM	60	0.09	12,415	77,594	720,979	643,385
5 AM	200	0.29	41,384	118,978	865,175	746,197
6 AM	340	0.49	70,352	189,330	1,009,371	820,041
7 AM	580	0.83	120,012	309,342	1,153,567	844,225
8 AM	750	1.08	155,188	464,530	1,297,762	833,232
9 AM	960	1.38	198,641	663,171	1,441,958	778,787
10 AM	700	1.00	144,842	808,014	1,586,154	778,140
11 AM	1,170	1.68	242,094	1,050,108	1,730,350	680,242
12 PM	740	1.06	153,119	1,203,227	1,874,546	671,319
1 PM	660	0.95	136,566	1,339,793	2,018,742	678,949
2 PM	730	1.05	151,050	1,490,843	2,162,937	672,095
3 PM	630	0.90	130,358	1,621,201	2,307,133	685,932
4 PM	1,240	1.78	256,578	1,877,779	2,451,329	573,550
5 PM	1,340	1.92	277,270	2,155,049	2,595,525	440,476
6 PM	1,560	2.24	322,792	2,477,840	2,739,721	261,880
7 PM	1,470	2.11	304,169	2,782,010	2,883,917	101,907
8 PM	1,470	2.11	304,169	3,086,179	3,028,112	58,066
9 PM	1,110	1.59	229,679	3,315,857	3,172,308	143,549
10 PM	410	0.59	84,836	3,400,694	3,316,504	84,190
11 PM	290	0.42	60,006	3,460,700	3,460,700	0
Average	696.875	1.00			Maximum =	<u>844,225</u>

(Future) Peak Day Flow = 2,403 gpm  
 Equalization Storage Req'd = 844,225 gallons  
 say 840,000 gallons

**REQUIRED STORAGE CAPACITY (UPPER DEMANDS)**

	<b>10% Build-Out</b>	<b>50% Build-Out</b>	<b>100% Build-Out</b>
1. FIRE FLOW (Industrial or Domestic/Commercial) Domestic/Commercial: 1,500 gpm @ 2 hours	180,000 gallons	180,000 gallons	180,000 gallons
2. EQUALIZATION Peak Hour Storage Analysis	120,000 gallons	600,000 gallons	1,200,000 gallons
3. EMERGENCY 15% (Future) Peak Day Flow	70,000 gallons	370,000 gallons	740,000 gallons
<b>TOTAL REQUIRED STORAGE</b>	<b>370,000 gallons</b>	<b>1,150,000 gallons</b>	<b>2,120,000 gallons</b>

Zion Crossroad Service Area - Water Storage Capacity Analysis - Upper Demands (3/16/15)

Service Area	Total Area (acres)	Developable (acres)	Unit Flow (gpd/ac)	Total Avg. Flow (GPD) - Full Buildout	Total Max Day Flow (GPD)	Total Max Day Flow (gpm)	Total Avg. Flow (GPD) - 50% Buildout	Total Max Day Flow 50% (GPD)	Total Max Day Flow 50% (gpm)	Total Avg. Flow (GPD) - 10% Buildout	Total Max Day Flow 10% (GPD)	Total Max Day Flow 10% (gpm)
				(Full Bldout)	(Full Bldout)	(Full Bldout)	(Full Bldout)	(Full Bldout)	(Full Bldout)	(Full Bldout)		
1-A	273	130	0	0	0	0	0	0	0	0	0	0
		20	800	16,395	29,511	20	8,197	14,755	10	1,639	2,951	2
		93	1200	111,553	200,796	139	55,777	100,398	70	11,155	20,080	14
		244		127,948	230,307	160	63,974	115,154	80	12,795	23,031	16
1-B	111	49	100	4,875	8,774	6	2,437	4,387	3	487	877	1
		19	800	15,565	28,017	19	7,782	14,008	10	1,556	2,802	2
		13	1200	15,574	28,033	19	7,787	14,017	10	1,557	2,803	2
		81		36,014	64,824	45	18,007	32,412	23	3,601	6,482	5
1-C	433	33	100	3,266	5,878	4	1,633	2,939	2	327	588	0
		246	800	196,972	354,549	246	98,486	177,275	123	19,697	35,455	25
		5	1000	5,210	9,378	7	2,605	4,689	3	521	938	1
		15	800	12,162	21,891	15	6,081	10,945	8	1,216	2,189	2
		299		217,609	391,696	272	108,805	195,848	136	21,761	39,170	27
1-D	395	49	100	4,875	8,775	6	2,438	4,388	3	488	878	1
		149	2000	298,330	536,994	373	149,165	268,497	186	29,833	53,699	37
		111	800	89,055	160,299	111	44,527	80,149	56	8,905	16,030	11
		309		392,260	706,068	490	196,130	353,034	245	39,226	70,607	49
<b>Service Area 1 Total</b>	<b>1212</b>	<b>933</b>		<b>773,831</b>	<b>1,392,896</b>	<b>967</b>	<b>386,915</b>	<b>696,448</b>	<b>484</b>	<b>77,383</b>	<b>139,290</b>	<b>97</b>
2-A	732	42	100	4,203	7,566	5	2,102	3,783	3	420	757	1
		30	800	24,304	43,748	30	12,152	21,874	15	2,430	4,375	3
		15	1000	14,623	26,322	18	7,312	13,161	9	1,462	2,632	2
		135	1200	162,394	292,310	203	81,197	146,155	101	16,239	29,231	20
		253	800	202,281	364,107	253	101,141	182,053	126	20,228	36,411	25
		475		407,807	734,052	510	203,903	367,026	255	40,781	73,405	51
2-B	494	50	100	5,003	9,006	6	2,502	4,503	3	500	901	1
		43	800	34,192	61,546	43	17,096	30,773	21	3,419	6,155	4
		36	1000	36,339	65,411	45	18,170	32,705	23	3,634	6,541	5
		9	1200	10,306	18,551	13	5,153	9,275	6	1,031	1,855	1
		266	800	212,977	383,359	266	106,489	191,680	133	21,298	38,336	27
		404		298,819	537,874	374	149,409	268,937	187	29,882	53,787	37
2-C	218	22	100	2,163	3,894	3	1,082	1,947	1	216	389	0
		108	800	86,409	155,536	108	43,204	77,768	54	8,641	15,554	11
		71	1200	85,493	153,887	107	42,746	76,944	53	8,549	15,389	11
		201		174,065	313,317	218	87,033	156,659	109	17,407	31,332	22
<b>Service Area 2 Total</b>	<b>1444</b>	<b>1,080</b>		<b>880,690</b>	<b>1,585,243</b>	<b>1,101</b>	<b>440,345</b>	<b>792,621</b>	<b>550</b>	<b>88,069</b>	<b>158,524</b>	<b>110</b>
3-A	357	58	100	5,759	10,367	7	2,880	5,183	4	576	1,037	1
		176	800	140,468	252,843	176	70,234	126,421	88	14,047	25,284	18
		0	800	0	0	0	0	0	0	0	0	0
		233		146,227	263,209	183	73,114	131,605	91	14,623	26,321	18
3-B	261	28	100	2,758	4,964	3	1,379	2,482	2	276	496	0
		13	800	10,524	18,942	13	5,262	9,471	7	1,052	1,894	1
		166	1200	198,676	357,617	248	99,338	178,809	124	19,868	35,762	25
		206		211,957	381,523	265	105,979	190,762	132	21,196	38,152	26
3-C	118	0	100	0	0	0	0	0	0	0	0	0
		37	800	29,730	53,515	37	14,865	26,757	19	2,973	5,351	4
		25	1200	29,627	53,329	37	14,814	26,665	19	2,963	5,333	4
		19	800	14,967	26,941	19	7,484	13,470	9	1,497	2,694	2
		81		74,325	133,784	93	37,162	66,892	46	7,432	13,378	9
3-D	597	12	100	1,178	2,120	1	589	1,060	1	118	212	0
		17	800	13,378	24,080	17	6,689	12,040	8	1,338	2,408	2
		409	800	327,591	589,663	409	163,795	294,832	205	32,759	58,966	41
		438		342,146	615,863	428	171,073	307,932	214	34,215	61,586	43
<b>Service Area 3 Total</b>	<b>1333</b>	<b>958</b>		<b>774,656</b>	<b>1,394,380</b>	<b>968</b>	<b>387,328</b>	<b>697,190</b>	<b>484</b>	<b>77,466</b>	<b>139,438</b>	<b>97</b>
4-A	682	82	100	8,241	14,833	10	4,120	7,416	5	824	1,483	1
		31	800	24,651	44,371	31	12,325	22,186	15	2,465	4,437	3
		40	1000	40,318	72,573	50	20,159	36,286	25	4,032	7,257	5
		176	1200	211,289	380,321	264	105,645	190,160	132	21,129	38,032	26
		27	800	21,758	39,164	27	10,879	19,582	14	2,176	3,916	3
<b>Service Area 4 Total</b>		<b>357</b>		<b>306,256</b>	<b>551,261</b>	<b>383</b>	<b>153,128</b>	<b>275,630</b>	<b>191</b>	<b>30,626</b>	<b>55,126</b>	<b>38</b>
<b>Total, SA (1 thru 4)</b>	<b>4670</b>	<b>3,328</b>		<b>2,735,433</b>	<b>4,923,780</b>	<b>3,419</b>	<b>1,367,717</b>	<b>2,461,890</b>	<b>1,710</b>	<b>273,543</b>	<b>492,378</b>	<b>342</b>

**ZION CROSSROADS SERVICE AREA - FLUVANNA COUNTY (10% BUILDOUT UPPER)**

Use Typical Diurnal Demand Curve

Time	Water Use/ Day	Normalized Demand	Gallons/ Hour	Cumulative (gal)	Cumulative Average (gal)	Difference (gal)
12 AM	160	0.23	4,710	4,710	20,516	15,805
1 AM	50	0.07	1,472	6,182	41,031	34,849
2 AM	55	0.08	1,619	7,802	61,547	53,746
3 AM	50	0.07	1,472	9,273	82,063	72,790
4 AM	60	0.09	1,766	11,040	102,579	91,539
5 AM	200	0.29	5,888	16,928	123,094	106,167
6 AM	340	0.49	10,009	26,937	143,610	116,673
7 AM	580	0.83	17,075	44,012	164,126	120,114
8 AM	750	1.08	22,080	66,092	184,642	118,550
9 AM	960	1.38	28,262	94,354	205,157	110,803
10 AM	700	1.00	20,608	114,962	225,673	110,711
11 AM	1,170	1.68	34,444	149,406	246,189	96,783
12 PM	740	1.06	21,785	171,192	266,705	95,513
1 PM	660	0.95	19,430	190,622	287,220	96,599
2 PM	730	1.05	21,491	212,113	307,736	95,624
3 PM	630	0.90	18,547	230,660	328,252	97,592
4 PM	1,240	1.78	36,505	267,165	348,768	81,603
5 PM	1,340	1.92	39,449	306,614	369,283	62,670
6 PM	1,560	2.24	45,926	352,540	389,799	37,260
7 PM	1,470	2.11	43,276	395,816	410,315	14,499
8 PM	1,470	2.11	43,276	439,092	430,831	8,261
9 PM	1,110	1.59	32,678	471,770	451,346	20,424
10 PM	410	0.59	12,070	483,840	471,862	11,978
11 PM	290	0.42	8,537	492,378	492,378	0
Average	696.875	1.00			Maximum =	<u>120,114</u>

(Future) Peak Day Flow = 342 gpm  
 Equalization Storage Req'd = 120,114 gallons  
 say 120,000 gallons

**ZION CROSSROADS SERVICE AREA - FLUVANNA COUNTY (50% BUILDOUT UPPER)**

Use Typical Diurnal Demand Curve

Time	Water Use/ Day	Normalized Demand	Gallons/ Hour	Cumulative (gal)	Cumulative Average (gal)	Difference (gal)
12 AM	160	0.23	23,552	23,552	102,579	79,027
1 AM	50	0.07	7,360	30,912	205,157	174,246
2 AM	55	0.08	8,096	39,008	307,736	268,729
3 AM	50	0.07	7,360	46,367	410,315	363,948
4 AM	60	0.09	8,832	55,199	512,894	457,694
5 AM	200	0.29	29,440	84,639	615,472	530,834
6 AM	340	0.49	50,047	134,686	718,051	583,365
7 AM	580	0.83	85,375	220,061	820,630	600,569
8 AM	750	1.08	110,399	330,460	923,209	592,749
9 AM	960	1.38	141,310	471,770	1,025,787	554,017
10 AM	700	1.00	103,039	574,809	1,128,366	553,557
11 AM	1,170	1.68	172,222	747,031	1,230,945	483,914
12 PM	740	1.06	108,927	855,958	1,333,524	477,566
1 PM	660	0.95	97,151	953,108	1,436,102	482,994
2 PM	730	1.05	107,455	1,060,563	1,538,681	478,118
3 PM	630	0.90	92,735	1,153,298	1,641,260	487,962
4 PM	1,240	1.78	182,526	1,335,824	1,743,839	408,015
5 PM	1,340	1.92	197,246	1,533,069	1,846,417	313,348
6 PM	1,560	2.24	229,629	1,762,698	1,948,996	186,298
7 PM	1,470	2.11	216,381	1,979,080	2,051,575	72,495
8 PM	1,470	2.11	216,381	2,195,461	2,154,154	41,307
9 PM	1,110	1.59	163,390	2,358,851	2,256,732	102,119
10 PM	410	0.59	60,351	2,419,202	2,359,311	59,891
11 PM	290	0.42	42,687	2,461,890	2,461,890	0
Average	696.875	1.00				Maximum = <u>600,569</u>

(Future) Peak Day Flow = 1,710 gpm  
 Equalization Storage Req'd = 600,569 gallons  
 say 600,000 gallons

**ZION CROSSROADS SERVICE AREA - FLUVANNA COUNTY (100% BUILDOUT UPPER)**

Use Typical Diurnal Demand Curve

Time	Water Use/ Day	Normalized Demand	Gallons/ Hour	Cumulative (gal)	Cumulative Average (gal)	Difference (gal)
12 AM	160	0.23	47,103	47,103	205,157	158,054
1 AM	50	0.07	14,720	61,823	410,315	348,492
2 AM	55	0.08	16,192	78,015	615,472	537,457
3 AM	50	0.07	14,720	92,735	820,630	727,895
4 AM	60	0.09	17,664	110,399	1,025,787	915,389
5 AM	200	0.29	58,879	169,278	1,230,945	1,061,667
6 AM	340	0.49	100,095	269,373	1,436,102	1,166,730
7 AM	580	0.83	170,750	440,123	1,641,260	1,201,137
8 AM	750	1.08	220,797	660,920	1,846,417	1,185,498
9 AM	960	1.38	282,621	943,540	2,051,575	1,108,034
10 AM	700	1.00	206,077	1,149,618	2,256,732	1,107,114
11 AM	1,170	1.68	344,444	1,494,062	2,461,890	967,828
12 PM	740	1.06	217,853	1,711,915	2,667,047	955,132
1 PM	660	0.95	194,302	1,906,217	2,872,205	965,988
2 PM	730	1.05	214,909	2,121,126	3,077,362	956,236
3 PM	630	0.90	185,470	2,306,596	3,282,520	975,924
4 PM	1,240	1.78	365,052	2,671,647	3,487,677	816,030
5 PM	1,340	1.92	394,491	3,066,138	3,692,835	626,696
6 PM	1,560	2.24	459,258	3,525,397	3,897,992	372,595
7 PM	1,470	2.11	432,763	3,958,160	4,103,150	144,990
8 PM	1,470	2.11	432,763	4,390,922	4,308,307	82,615
9 PM	1,110	1.59	326,780	4,717,702	4,513,465	204,238
10 PM	410	0.59	120,703	4,838,405	4,718,622	119,783
11 PM	290	0.42	85,375	4,923,780	4,923,780	0
Average	696.875	1.00			Maximum =	<u>1,201,137</u>

(Future) Peak Day Flow = 3,419 gpm  
 Equalization Storage Req'd = 1,201,137 gallons  
 say 1,200,000 gallons



### 4. Force Main Size Determination - Primary Line

Sewer Summary (Flow to DOC)									
Service Area		Pipe Diameter	Full Buildout WW Peak		50% of Buildout WW		50% of Buildout WW Peak		Velocity (fps)
Upstream Node	Downstream Node		Flow (gpd)	Velocity (fps)	Flow (gpd)	Velocity (fps)	Flow (gpd)	Velocity (fps)	
2-A1	G	6	347,274	2.74	69,455	0.55	173,637	1.37	1.37
G	H	6	347,274	2.74	69,455	0.55	173,637	1.37	1.37
4-A (2-B)	H	6	1,107,960	8.73	221,592	1.75	553,980	4.37	4.37
H	I	6	1,455,235	11.47	291,047	2.29	727,617	5.73	5.73
2-A2	I	6	347,274	2.74	69,455	0.55	173,637	1.37	1.37
I	J	8	1,802,509	7.99	360,502	1.60	901,255	3.99	3.99
2-C	J	6	282,910	2.23	56,582	0.45	141,455	1.11	1.11
J	1-A	10	2,085,420	5.92	417,084	1.18	1,042,710	2.96	2.96
1-A	DOC	10	4,806,528	13.64	1,017,888	2.89	2,403,264	6.82	6.82
F	1-A	10	2,509,568	7.12	501,914	1.42	1,254,784	3.56	3.56
1-B	F	6	62,464	0.49	12,493	0.10	31,232	0.25	0.25
E	F	10	2,447,105	6.94	489,421	1.39	1,223,552	3.47	3.47
1-C	E	6	359,361	2.83	71,872	0.57	179,681	1.42	1.42
D	E	10	2,087,743	5.92	417,549	1.18	1,043,872	2.96	2.96
3-A	D	6	233,880	1.84	46,776	0.37	116,940	0.92	0.92
C	D	10	1,853,864	5.26	370,773	1.05	926,932	2.63	2.63
B	C	8	1,853,864	8.22	370,773	1.64	926,932	4.11	4.11
1-D	B	6	794,193	6.26	158,839	1.25	397,097	3.13	3.13
A	B	6	1,059,670	8.35	211,934	1.67	529,835	4.18	4.18
3-B	A	6	364,330	2.87	72,866	0.57	182,165	1.44	1.44
3-C	A	6	147,091	1.16	29,418	0.23	73,545	0.58	0.58
3-D	A	6	548,250	4.32	109,650	0.86	274,125	2.16	2.16

Sewer Summary (Flow to Zion Crossroads, Node C)									
Service Area		Pipe Diameter	Full Buildout WW Peak		50% of Buildout WW		50% of Buildout WW Peak		Velocity (fps)
Upstream Node	Downstream Node		Flow (gpd)	Velocity (fps)	Flow (gpd)	Velocity (fps)	Flow (gpd)	Velocity (fps)	
2-A1	G	6	347,274	2.74	69,455	0.55	173,637	1.37	
G	H	6	347,274	2.74	69,455	0.55	173,637	1.37	
4-A (2-B)	H	6	1,107,960	8.73	221,592	1.75	553,980	4.37	
H	I	6	1,455,235	11.47	291,047	2.29	727,617	5.73	
2-A2	I	6	347,274	2.74	69,455	0.55	173,637	1.37	
I	J	8	1,802,509	7.99	360,502	1.60	901,255	3.99	
2-C	J	6	282,910	2.23	56,582	0.45	141,455	1.11	
J	1-A	10	2,085,420	5.92	417,084	1.18	1,042,710	2.96	
1-A	F	10	2,296,959	6.52	459,392	1.30	1,148,480	3.26	
1-B	F	6	62,464	0.49	12,493	0.10	31,232	0.25	
F	E	10	2,359,423	6.69	471,885	1.34	1,179,711	3.35	
1-C	E	6	359,361	2.83	71,872	0.57	179,681	1.42	
E	D	10	2,718,784	7.71	543,757	1.54	1,359,392	3.86	
3-A	D	6	233,880	1.84	46,776	0.37	116,940	0.92	
D	C	10	2,952,664	8.38	590,533	1.68	1,476,332	4.19	
B	C	8	1,853,864	8.22	370,773	1.64	926,932	4.11	
1-D	B	6	794,193	6.26	158,839	1.25	397,097	3.13	
A	B	6	1,059,670	8.35	211,934	1.67	529,835	4.18	
3-C	A	6	147,091	1.16	29,418	0.23	73,545	0.58	
3-B	A	6	364,330	2.87	72,866	0.57	182,165	1.44	
3-D	A	6	548,250	4.32	109,650	0.86	274,125	2.16	



## 5. Cost Estimates, Initial Water and Sewer Phases

### PRELIMINARY CONSTRUCTION COST ESTIMATES FOR WATER SERVICE TO SERVICE - PHASE 1 FLUVANNA COUNTY

15-Jan-15

#### SERVICE AREA 1

Item	Description	Quantity	Unit	Unit Price	Total
1	12 inch PVC Water Main	21,000	LF	\$50	\$1,050,000
2	12 inch Gate Valves	15	EA	\$2,500	\$37,500
3	12 inch Bore and Case (24" Casing)	120	LF	\$300	\$36,000
4	Fire Hydrant Assemblies	50	EA	\$4,000	\$200,000
5	Connect to Existing/Meter Vault/DOC	1	EA	\$20,000	\$20,000
6	Connect to Existing/Meter Vault/LCWA	1	EA	\$30,000	\$30,000
7	Traffic, EC and Restoration	21,000	LF	\$10	\$210,000
8	Mob/Demob/Bonds	1	LS	\$79,175	\$79,175
				Subtotal =	\$1,662,675
				20 % Contingency =	\$332,535
				Subtotal, Construction Cost =	\$1,995,210
				10% Engineering =	\$199,521
				10% Inspection/Legal/Administrative =	\$199,521
				<b>Total Estimated Project Costs, Option 1 =</b>	<b>\$2,394,252</b>

**PRELIMINARY CONSTRUCTION COST ESTIMATES FOR WATER SERVICE TO SERVICE - PHASE I  
FLUVANNA COUNTY  
18-Feb-15**

**500,000 gallon Elevated Pedestal Tank**

Item	Description	Quantity	Unit	Unit Price	Total Price
1	12" Water Main	200	LF	\$60	\$12,000
2	Altitude Valve and Vault	1	EA	\$30,000	\$30,000
3	Tank Foundation (assume piles)	1	LS	\$250,000	\$250,000
4	0.5 MG Elevated Storage Tank	1	EA	\$900,000	\$900,000
5	Coating Systems for Tank	1	LS	\$100,000	\$100,000
6	Cathodic Protection System	1	LS	\$20,000	\$20,000
7	Telemetry System	1	LS	\$25,000	\$25,000
8	Misc Electrical Work	1	LS	\$25,000	\$25,000
9	Misc Site Work/Road	1	LS	\$40,000	\$40,000
10	Mob/Demob/E&S/Bonds	1	LS	\$50,000	\$50,000
Subtotal =					\$1,452,000
20 % Contingency =					\$290,400
Subtotal, Construction Cost =					\$1,742,400
10% Engineering =					\$174,240
10% Inspection/Legal/Administrative =					\$174,240
<b>Total Estimated Project Costs, Water Tank =</b>					<b>\$2,090,880</b>

**Water Booster Station**

Item	Description	Quantity	Unit	Unit Price	Total Price
1	12" Water Main	30	LF	\$60	\$1,800
2	Building and Foundation	1	LS	\$130,000	\$100,000
3	Pumps and Mechanical	1	LS	\$125,000	\$125,000
4	Electrical/SCADA	1	LS	\$40,000	\$40,000
5	Emergency Generator	1	LS	\$50,000	\$50,000
6	Misc Site Work/Road	1	LS	\$40,000	\$40,000
7	Mob/Demob/E&S/Bonds	1	LS	\$25,000	\$25,000
Subtotal =					\$381,800
20 % Contingency =					\$76,360
Subtotal, Construction Cost =					\$458,160
15% Engineering =					\$68,724
10% Inspection/Legal/Administrative =					\$45,816
<b>Total Estimated Project Costs, Booster Station =</b>					<b>\$572,700</b>
<b>Total Project Costs, Tank and Booster Station =</b>					<b>\$2,663,580</b>

**PRELIMINARY CONSTRUCTION COST ESTIMATES FOR WATER SERVICE TO SERVICE - PHASE I  
FLUVANNA COUNTY  
18-Feb-15**

**250,000 gallon Elevated Pedestal Tank**

Item	Description	Quantity	Unit	Unit Price	Total Price
1	12" Water Main	200	LF	\$60	\$12,000
2	Altitude Valve and Vault	1	EA	\$30,000	\$30,000
3	Tank Foundation (assume piles)	1	LS	\$180,000	\$180,000
4	0.5 MG Elevated Storage Tank	1	EA	\$600,000	\$600,000
5	Coating Systems for Tank	1	LS	\$65,000	\$65,000
6	Cathodic Protection System	1	LS	\$17,000	\$17,000
7	Telemetry System	1	LS	\$25,000	\$25,000
8	Misc Electrical Work	1	LS	\$25,000	\$25,000
9	Misc Site Work/Road	1	LS	\$35,000	\$35,000
10	Mob/Demob/E&S/Bonds	1	LS	\$45,000	\$45,000
Subtotal =					\$1,034,000
20 % Contingency =					\$206,800
Subtotal, Construction Cost =					\$1,240,800
10% Engineering =					\$124,080
10% Inspection/Legal/Administrative =					\$124,080
<b>Total Estimated Project Costs, Water Tank =</b>					<b>\$1,488,960</b>

**Water Booster Station**

Item	Description	Quantity	Unit	Unit Price	Total Price
1	12" Water Main	30	LF	\$60	\$1,800
2	Building and Foundation	1	LS	\$130,000	\$100,000
3	Pumps and Mechanical	1	LS	\$125,000	\$125,000
4	Electrical/SCADA	1	LS	\$40,000	\$40,000
5	Emergency Generator	1	LS	\$50,000	\$50,000
6	Misc Site Work/Road	1	LS	\$40,000	\$40,000
7	Mob/Demob/E&S/Bonds	1	LS	\$25,000	\$25,000
Subtotal =					\$381,800
20 % Contingency =					\$76,360
Subtotal, Construction Cost =					\$458,160
15% Engineering =					\$68,724
10% Inspection/Legal/Administrative =					\$45,816
<b>Total Estimated Project Costs, Booster Station =</b>					<b>\$572,700</b>

**Total Project Costs, Tank and Booster Station = \$2,061,660**

**PRELIMINARY CONSTRUCTION COST ESTIMATES FOR SEWER SERVICE TO SERVICE - PHASE 1  
FLUVANNA COUNTY  
18-Feb-15**

**SERVICE AREA 1 (3C to DOC)**

Item	Description	Quantity	Unit	Unit Price	Total
1	8 inch force main (see note 1)	23,000	LF	\$45	\$1,035,000
2	Bore and Case (20" Casing)	120	LF	\$200	\$24,000
3	8 inch plug valves	8	EA	\$2,000	\$16,000
4	Connect to Existing	1	EA	\$10,000	\$10,000
5	Traffic, EC and Restoration	23,000	LF	\$10	\$230,000
6	Mob/Demob/Bonds (5%)	1	LS	<u>\$65,750</u>	<u>\$65,750</u>
				Subtotal =	\$1,380,750
				20 % Contingency =	<u>\$276,150</u>
				Subtotal, Construction Cost =	\$1,656,900
				12% Engineering =	\$198,828
				10% Inspection/Legal/Administrative =	\$165,690
				<b>Total Estimated Project Costs, Option 2 =</b>	<b>\$2,021,418</b>

Note 1 - this is an average size selected for estimating purposes (actual will be 6", 8" and 10")

**SERVICE AREA 1 (Rt 250/15 to DOC)**

Item	Description	Quantity	Unit	Unit Price	Total
1	8 inch force main (see note 1)	16,300	LF	\$45	\$733,500
2	Bore and Case (20" Casing)	120	LF	\$200	\$24,000
3	8 inch plug valves	6	EA	\$2,000	\$12,000
4	Connect to Existing	1	EA	\$10,000	\$10,000
5	Traffic, EC and Restoration	16,300	LF	\$10	\$163,000
6	Mob/Demob/Bonds (5%)	1	LS	<u>\$47,125</u>	<u>\$47,125</u>
				Subtotal =	\$989,625
				20 % Contingency =	<u>\$197,925</u>
				Subtotal, Construction Cost =	\$1,187,550
				12% Engineering =	\$142,506
				10% Inspection/Legal/Administrative =	\$118,755
				<b>Total Estimated Project Costs, Option 2 =</b>	<b>\$1,448,811</b>

Note 1 - this is an average size selected for estimating purposes (actual will be 6", 8" and 10")



# Zion Crossroads Water & Sewer System Design Services

Fluvanna County

RFP #2015-03

July 9, 2015

SUBMITTED BY:

Dewberry  
4805 Lake Brook Drive  
Suite 200  
Glen Allen, VA 23060

SUBMITTED TO:

Fluvanna County  
132 Main Street  
P.O. Box 540  
Palmyra, VA 22963

Fluvanna County

# Zion Crossroads Water and Sewer System Design Services

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Cover Letter

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Certificate of no Collusion, Offeror Statement)

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Dewberry Engineers Inc. | 804.290.7957  
 4805 Lake Brook Drive, Suite 200 | 804.290.7928 fax  
 Glen Allen, VA 20850 | www.dewberry.com

July 9, 2015

Joe Rodish  
 Purchasing Officer  
 Fluvanna County  
 132 Main Street  
 P.O. Box 540  
 Palmyra, VA 22963

**RE: Zion Crossroads Water & Sewer System Design Services  
 RFP #2015-03**

Dear Mr. Rodish:

Fluvanna County requires a consultant to provide design and construction administration services for the Zion Crossroads Water and Sewer System Design contract, which will provide critical infrastructure necessary to enhance water and sewer capabilities for the Zion Crossroads Service Area.

Dewberry is the ideal teaming partner for Fluvanna County on this project, thanks to our background knowledge, strong experience with similar projects, and understanding of how to implement a multiple task order contract. Our team is structured to provide Fluvanna County with local expertise, significant capacity, and responsive service to deliver each task order of this contract within budget and on schedule.

While reviewing our qualifications, please consider the following benefits that the Dewberry team offers:

- **We have an unparalleled understanding of the Zion Crossroads area.** Dewberry has been providing water and wastewater infrastructure design services to the Zion Crossroads area for Louisa County over the past 20 years. Additionally we have provided services for the design of the Department of Corrections Water Treatment Plant, which is contained within Fluvanna County's service area. We understand the stakeholders and requirements for a project in this area and will be able to provide this expertise to each aspect of this contract with Fluvanna County.
- **Experienced Project Manager with expertise in managing multiple task orders for complex projects.** Our proposed Project Manager Dan Villhauer offers the County not only his expertise in water and wastewater design, but also his experience in managing task order contracts. With this contract being divided into task orders, a project manager who can successfully implement concurrent task orders is critical. Dan Villhauer will be able to deliver this expertise to the County.
- **Fresh set of eyes to provide a new perspective.** Our team has already begun the PER validation for this project. Through this review we are able to bring a fresh set of eyes that will offer the County new and innovative solutions as you implement improvements for this service area.

Thank you for the opportunity to submit our proposal for your consideration. We are excited to partner with Fluvanna County on this contract. Should you have any questions regarding our proposal, please feel free to give us a call.

Sincerely,  
 Dewberry Engineers Inc.

Danylo A. Villhauer, PE  
 Project Manager

David S. Maxwell, PE, LEED AP  
 Vice President

**VENDOR DATA SHEET**

Note: The following information is required as part of your response to this solicitation. Failure to complete and provide this sheet may result in finding your bid nonresponsive.

1. Qualification: The vendor must have the capability and capacity in all respects to satisfy fully all of the contractual requirements.

2. Vendor's Primary Contact:

Name: David S. Maxwell Phone: 804.205.3343

3. Years in Business: Indicate the length of time you have been in business providing this type of good or service: 88 Years 7 Months

4. Vendor Information:

FIN or FEI Number: 13-0746510 If Company, Corporation, or Partnership  
 SSN: \_\_\_\_\_ (If Vendor is a sole proprietor)

5. Indicate below a listing of at least four (4) current or recent accounts, either commercial or governmental, that your company is servicing, has serviced, or has provided similar goods. Include the length of service and the name, address, and telephone number of the point of contact.

Company: <u>Hanover County</u>	Contact: <u>Gary Craft</u>
Phone: <u>804.365.6236</u>	Email: <u>gacraft@hanovercounty.gov</u>
Dates of Service: <u>1995 to Present</u>	\$\$ Value: <u>\$582,098 (Fees June 2014 to June 2015)</u>

Company: <u>Louisa County</u>	Contact: <u>Pam Baughman</u>
Phone: <u>540.967.1122</u>	Email: <u>pbaughman@louisa.org</u>
Dates of Service: <u>1992 to Present</u>	\$\$ Value: <u>\$104,290 (Fees June 2014 to June 2015)</u>

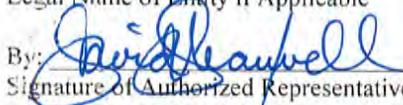
Company: <u>Goochland County</u>	Contact: <u>Todd Kilduff</u>
Phone: <u>804.556.5835</u>	Email: <u>tkilduff@co.goochland.va.us</u>
Dates of Service: <u>2012 to Present</u>	\$\$ Value: <u>\$302,448 (Fees June 2014 to June 2015)</u>

Company: <u>City of Emporia</u>	Contact: <u>Linwood Pope</u>
Phone: <u>434.634.4500</u>	Email: <u>publicutilities@telpage.net</u>
Dates of Service: <u>2008 to Present</u>	\$\$ Value: <u>\$37,900 (Fees June 2014 to June 2015)</u>

By my signature below, I, as a duly authorized representative of the entity named below, certify the accuracy of the foregoing information:

Dewberry Engineers Inc.  
 Legal Name of Entity if Applicable

Date: July 6, 2015

By:  (SEAL)  
 Signature of Authorized Representative

Print Name: David S. Maxwell

Print Title: Vice President

**Vendor Certification (for a Sole Proprietor):**

\_\_\_\_\_  
 Signature (SEAL)

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

**PLEASE RETURN THIS PAGE WITH PROPOSAL SUBMISSION – [REQUIRED]**

**PROOF OF AUTHORITY TO TRANSACT BUSINESS IN VIRGINIA**

**THIS FORM MUST BE SUBMITTED WITH YOUR PROPOSAL/BID. FAILURE TO INCLUDE THIS FORM MAY RESULT IN REJECTION OF YOUR PROPOSAL/BID**

Pursuant to Virginia Code §2.2-4311.2, an Offeror/Bidder organized or authorized to transact business in The Commonwealth pursuant to Title 13.1 or Title 50 of the Code of Virginia shall include in its proposal/bid the identification number issued to it by the State Corporation Commission ("SCC"). Any Offeror/Bidder that is not required to be authorized to transact business in the Commonwealth as a foreign business entity under Title 13.1 or Title 50 of the Code of Virginia or as otherwise required by law shall include in its proposal/bid a statement describing why the Offeror/Bidder is not required to be so authorized. Any Offeror/Bidder described herein that fails to provide the required information shall not receive an award unless a waiver of this requirement and the administrative policies and procedures established to implement this section is granted by the County Administrator, as applicable. If this quote for goods or services is accepted by the County of Fluvanna, Virginia, the undersigned agrees that the requirements of the Code of Virginia Section 2.2-4311.2 have been met.

Please complete the following by checking the appropriate line that applies and providing the requested information. **PLEASE NOTE: The SCC number is NOT your federal ID number or business license number.**

A.  Offeror/Bidder is a Virginia business entity organized and authorized to transact business in Virginia by the SCC and such vendor's Identification Number issued to it by the SCC is F100462-3.

B.  Offeror/Bidder is an out-of-state (foreign) business entity that is authorized to transact business in Virginia by the SCC and such vendor's Identification Number issued to it by the SCC is \_\_\_\_\_.

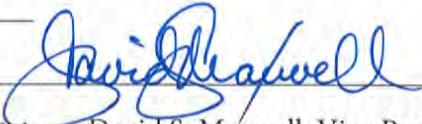
C.  Offeror/Bidder does not have an Identification Number issued to it by the SCC and such vendor is not required to be authorized to transact business in Virginia by the SCC for the following reason(s):

**Please attach additional sheets if you need to explain why such Offeror/Bidder is not required to be authorized to transact business in Virginia.**

Legal Name of Company (as listed on W-9): Dewberry Engineers Inc.

Legal Name of Offeror/Bidder: Dewberry Engineers Inc.

Date: July 6, 2015

Authorized Signature:  \_\_\_\_\_

Print or Type Name and Title: David S. Maxwell, Vice President

**PLEASE RETURN THIS PAGE WITH PROPOSAL SUBMISSION – [REQUIRED]**

**CERTIFICATE OF NO COLLUSION:**

The undersigned, acting on behalf of Dewberry Engineers Inc., does hereby certify in connection with the procurement and proposal to which this Certificate of No Collusion is attached that:

This proposal is not the result of, or affected by, any act of collusion with another person engaged in the same line of business or commerce; nor is this proposal the result of, or affected by, any act of fraud punishable under Article 1.1 of Chapter 12 of Title 18.1 of the Code of Virginia, 1950, as amended (18.2-498.1 et seq.).

The undersigned declares that the person or persons signing this proposal is/are fully authorized to sign the proposal on behalf of the firm listed and to fully bind the firm listed to all conditions and provisions thereof.

Respectfully submitted this 6 day of July, 2015.

Dewberry Engineers Inc.  
Legal Name of Entity

By: *David S. Maxwell* (SEAL)  
Signature of Authorized Representative

Print Name: David S. Maxwell

Print Title: Vice President

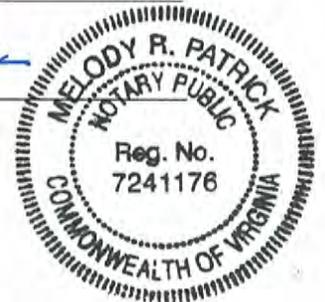
Date: July 6, 2015

**ACKNOWLEDGEMENT**

State of Virginia  
In the County/City of Henrico, to-wit:

The foregoing Certification of No Collusion was subscriber and sworn to before me by David S. Maxwell (Print Name), Vice President (Print Title) on behalf of Dewberry Engineers Inc. (Print Name of Entity) on this 6 day of July (month), 2015 (year).

*Melody R. Patrick*  
Notary Public



My commission expires: January 31, 2017

Registration Number: 7241176

**PLEASE RETURN THIS PAGE WITH PROPOSAL SUBMISSION – [REQUIRED]**

**OFFEROR STATEMENT**

The undersigned Offeror hereby certifies that the Offeror has carefully examined all instructions, plans, conditions, specifications and other documents or items of this Request for Proposal and hereby submits this Proposal pursuant to such instructions, plans, conditions, specifications and other documents or items.

**Complete if Offeror is an Entity:**

WITNESS the following duly authorized signature and seal:

Name of Entity: Dewberry Engineers Inc.  
By: *David S. Maxwell* (SEAL)  
Signature  
Print Name: David S. Maxwell  
Print Title: Vice President

STATE OF Virginia  
COUNTY/CITY OF Henrico, to-wit:

The foregoing instrument was acknowledged before me this 6 day of July (month), 2015 (year) by David S. Maxwell (Print Name), Vice President (Print Title) on behalf of Dewberry Engineers Inc. (Name of Entity).

*Melody R. Patrick*  
Notary Public



My commission expires: January 31, 2017  
Notary registration number: 7241176

**Complete if Offeror is a Sole Proprietor:**

Witness the following signature and seal:

\_\_\_\_\_  
(SEAL)  
Signature  
Print Name: \_\_\_\_\_

STATE OF \_\_\_\_\_  
COUNTY/CITY OF \_\_\_\_\_, to-wit:

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_ (month), \_\_\_\_\_ (year) by \_\_\_\_\_ (Print Name), a sole proprietor.

\_\_\_\_\_  
Notary Public [SEAL]

My commission expires: \_\_\_\_\_  
Notary registration number: \_\_\_\_\_

**PLEASE RETURN THIS PAGE WITH PROPOSAL SUBMISSION – [REQUIRED]**

## D. Overview

*The purpose of this section is to provide Fluvanna County with an overview of the history, qualifications and abilities of the Offeror's firm and for the Offeror to demonstrate the specific qualifications of the staff the Offeror will assign to this project if selected.*

### EXECUTIVE SUMMARY

Fluvanna County is seeking a consultant to partner with you in providing design and construction administration services for Zion Crossroads Water and Sewer System projects. Dewberry's experience with design and construction administration of the water and wastewater system infrastructure in this area makes us the ideal partner for the County on this contract. You require an engineering consultant who is ready to serve as an extension of your staff throughout each task order. Partnering with local municipalities on large scale water/wastewater infrastructure contracts is what this Dewberry team does, and we are ready to work with Fluvanna County on these critical projects to provide utility service within the Zion Crossroads area. We are ready to hit the ground running!

#### BY SELECTING DEWBERRY FOR THE ZION CROSSROADS WATER AND SEWER SYSTEM DESIGN SERVICES, THE COUNTY RECEIVES THE FOLLOWING BENEFITS:

**Project Manager With Task Order Expertise.** To expedite the execution of this contract Fluvanna County has opted to approach this large scale undertaking through a task order method. For effective implementation of this approach you require a Project Manager who is experienced with managing multi-disciplined task order contracts. We deliver this to the County by assigning Dan Villhauer as your Project Manager. He is currently serving as Contract Manager on multiple term contracts for Louisa County, Goochland County, Prince George County and Caroline County. He understands how to implement a specialized water/wastewater team and coordinate their efforts for successfully completed projects.

**Experience Designing Similar Infrastructure Improvement Projects for Similar Municipalities.** The Dewberry team has worked with local municipalities on identical improvement needs from the master planning stage through construction. Through this experience we have worked with our clients to have a thorough understanding of current and future demands that are critical to long term infrastructure implementation. From there we are able to truly partner with them to build reliable and cost effective water and sewer infrastructure. We have provided these services to similar clients, including Louisa County, Cumberland County, Goochland County and the Town of Colonial Beach.

**Fresh Set Of Eyes For Innovative Solutions.** Our team has already begun a validation of the PER provided within the RFP. Through our review, insight into the area, and experience on similar projects, we are able to offer the County a fresh set of eyes. In our initial review we have identified opportunities to implement innovative solutions that will help you prioritize your projects and minimize capital costs with our full knowledge of the options available in your area. We have detailed these potential alternatives within the project approach section of this proposal, which can be found on page 16.

**Dewberry Team Designed a Majority of the Zion Crossroads Infrastructure and Department of Corrections Water Treatment Plant.** The Dewberry team designed the majority of the current infrastructure within the Zion Crossroads area adjacent to Fluvanna County. We understand the drivers and know the area where Fluvanna is proposing their infrastructure improvements. In addition to the Zion Crossroads work, Dewberry designed the Department of Corrections Water Treatment Plant, which we understand Fluvanna County is proposing to potentially utilize as a water source for the Zion Crossroads area.

**Strong Relationships With Your Leadership.** For any engineering project, a level of trust is imperative between a consultant and their client. Dewberry has earned this trust with your project lead Wayne Stephens through our work with him in Fauquier County. Our contract with Fauquier County was managed by our QA/QC lead for this contract, Jeff Chapin. Jeff brings to the team an understanding of preferences and project expectations that will translate directly into the successful execution of this contract.

## YOUR PROJECT MANAGER AND TEAM

The Dewberry team understands and has extensive experience in the wide variety of services that may be required for each task order under this contract, including: studies, preliminary engineering reports, design services, and construction administration services, and construction inspection services for water/wastewater engineering projects in the Zion Crossroads area. We also understand the typical tasks that are required to make each of these types of task orders under this contract a success for Fluvanna County.

We have carefully selected our team of professionals and technical experts to match our experience and expertise with the qualifications required for this contract with Fluvanna County. Our project team has been structured to provide the County with significant capacity. The majority of the design will be provided by our staff in our Richmond office with additional support being provided from our Fairfax office when needed. Our Project Manager, Dan Villhauer, will serve as your main point of contact for all project issues. He will work closely with our proposed Principal-In-Charge, Dave Maxwell, to provide Fluvanna County quality service.

Our technical experts who will serve as part of a project team on your projects to coordinate day-to-day issues are identified in the organization chart. An overview of key members of our project team follows.

- Our proposed Project Manager, **Mr. Dan Villhauer, PE, LEED AP**, has extensive experience with water and wastewater engineering, evaluation, and design projects. He is currently managing annual services contracts for water and wastewater projects for Louisa, Powhatan, Caroline, Prince George, and Goochland County. His experience includes master planning, permitting, studies, and design and construction administration for water supply, production, and treatment and wastewater collection, conveyance, and treatment projects. Dan also works closely with municipalities in assisting with plan review, water and sewer standards development, and many other miscellaneous tasks to provide full service. He understands how to manage task orders for large water/wastewater infrastructure projects for local

### PROFILE OF YOUR PROJECT MANAGER: DAN VILLHAUER, PE

Phone: 804.205.3342

Email: [dvillhauer@dewberry.com](mailto:dvillhauer@dewberry.com)

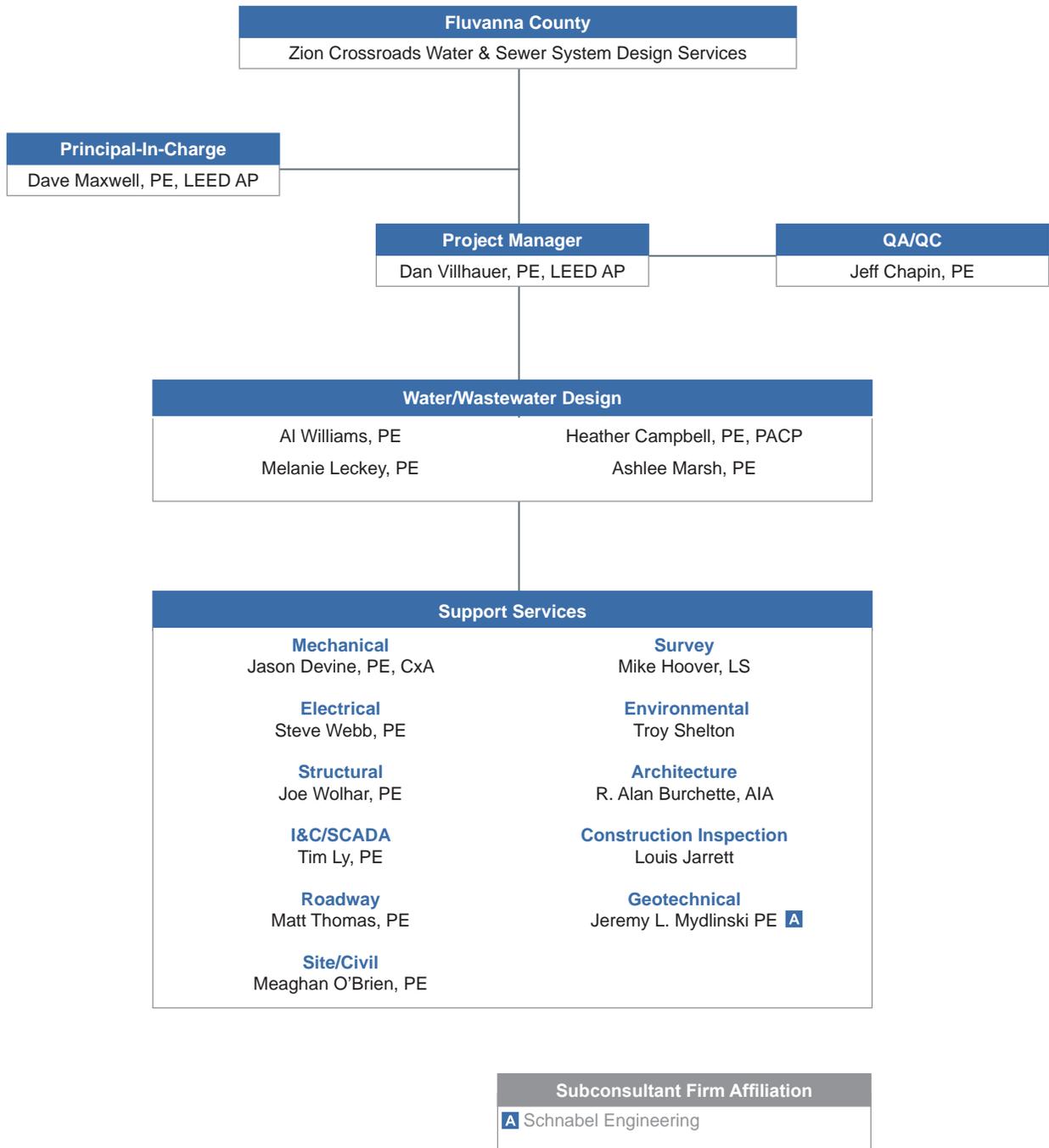


- Broad range of water/wastewater expertise
- Significant experience working with municipalities similar to Fluvanna County
- Contract Manager for Louisa County, Goochland County, Powhatan County, Prince George County, and Caroline Open End Contracts

municipalities.

- Our proposed Principal-In-Charge, **Mr. Dave Maxwell, PE, LEED AP**, possesses extensive experience providing oversight to projects related to water and wastewater systems. He will work so that the team's priority is giving responsive service to the County and will work closely with Mr. Villhauer and the team to deliver technically sound and cost effective results that will ultimately benefit Fluvanna County.
- Our proposed engineering staff for water and wastewater services includes professionals with extensive expertise related to water and wastewater projects for system planning, design, and construction. The majority of our engineering team's experience is in the evaluation, design, and construction of utility lines, pump stations, treatment facilities, storage tanks, and associated appurtenances. This experience includes permitting, system evaluations, routing selections, modeling, rehabilitation analysis and design, design plan development, and construction administration services. **Our proposed project team for this project includes registered professionals with significant experience in the water/wastewater design field.** Please review our organizational chart on the following page followed by resumes for each team member.

# TEAM ORGANIZATION CHART



## E. Resumes

Provide a concise resume or description of each team member's education, relevant professional experience, length of time employed by the Offeror and/or subconsultant, and professional license.



### Dan Villhauer PE, LEED AP Project Manager

Mr. Villhauer will serve as your project manager and has extensive experience in all areas of water/wastewater engineering. His areas of expertise include planning and design of water/wastewater treatment plants, collection/distribution systems, and pump stations. He leads full service teams in the development of engineering reports, treatability studies, process design, and construction administration.

### SELECT EXPERIENCE

**Zion Crossroads Water and Wastewater Infrastructure Improvements, Louisa County, VA.** Project Manager for engineering services for full range of water and wastewater infrastructure within the Zion Crossroads area. Projects have included collection system improvements, water storage, master planning, water system improvements, pump stations, and wastewater treatment plants.

**Multiple Master Planning Projects, Various Locations, VA.** Project Manager. Developed full water and wastewater master plans for various municipalities throughout Virginia. Master plans included developing water and sewer models for the evaluation of existing water and wastewater facilities, population and demand projections, and recommendations and budgetary cost estimates for system improvements required to meet existing and future demands. Currently Dewberry has provided master plans for Louisa County, Hanover County, Goochland County, Powhatan County, Prince George County, Caroline County and UVA.

**Elmont Water Storage Tank and Booster Station, Hanover County, VA.** Project Manager currently providing engineering services with the completion of a preliminary engineering report, full engineering design services and construction administration to develop the new Elmont Pressure Zone which will be located in the southwestern portion of Hanover County's Suburban Service Area. The system includes a 1.0 million gallon storage tank and a 4.0 MGD booster station.

**Grassy Swamp Sewerage And Cedar Lane – Winns Church – Route 33 Waterline and Wastewater Pump Station, Hanover County, VA.** Project Engineer for design and construction services for a Board-initiative project to bring water and sewer utilities to a growth area of the County in the western portion of their service area. Project involved over 5 miles of waterline and force main, a 2 MGD sewage pump station, and significant property owner coordination.

**Robin Grove Booster Water Storage Tank and Booster Station, Town of Colonial Beach, VA.** Technical advisor/senior engineer for the design and construction administration of a 250,000 gallon finished water storage tank and replacement of a 1 MGD booster pump station. The project included the development and calibration of a water distribution system model for purposes of verifying design criteria for the tank and booster station.

#### EDUCATION:

MS/Virginia Polytechnic Institute and State University/Civil Engineering

BS/University of Virginia/Civil Engineering

#### REGISTRATIONS:

Professional Engineer  
LEED Accredited Professional

#### EXPERIENCE

Dewberry: 5  
Prior: 5



## David Maxwell PE, LEED AP

### Principal-In-Charge

Mr. Maxwell is the manager of Dewberry's Richmond office. He will serve as the Principal-In-Charge and ensure resources and subject matter experts are available for each project as needed. He is responsible for directing multi-discipline teams in the development of technical studies and the preparation of design documents for civil and environmental engineering projects.

#### SELECT EXPERIENCE

- Hanover County As-Needed Water / Wastewater Consulting Engineering Services, Hanover County, VA
- City of Richmond Annual Contract for Engineering Services, Richmond, VA
- Prince George County Annual Contract, Prince George, VA
- Caroline County Water/Wastewater Annual Contract, Caroline, VA
- Goochland County Open-End Contract, Goochland, VA
- Zion Crossroads Water and Wastewater Infrastructure Improvements, Louisa County, VA
- Shelton Pointe Force Main and Pump Station, Hanover, VA
- Elmont Water Storage Tank and Booster Station, Hanover County, VA

#### EDUCATION:

BS/University of Virginia/Civil-Environmental Engineering

#### REGISTRATIONS:

Professional Engineer  
LEED Accredited Professional

#### EXPERIENCE:

Dewberry: 13  
Prior: 8



## Jeff Chapin PE

### QA/QC

Mr. Chapin, PE, has more than 35 years of experience in a wide range of waterworks and wastewater facility engineering. His background includes the planning, permitting, design, construction, and operation of water and wastewater treatment and distribution/conveyance systems. He is thoroughly familiar with the local, state, and federal regulations for water and wastewater facilities by virtue of his years of extensive design and engineering experience. In addition, he has served as Project Manager for planning, permitting and design of construction plans and specifications for numerous water transmission main and sewer projects involving extensive coordination with existing utility locations and crossings.

#### SELECT EXPERIENCE

- New Baltimore Water System, Fauquier County, VA
- Fauquier County Opal Water Supply Study, Fauquier County, VA
- Bealeton Water Treatment Plant, Fauquier County, VA
- Vint Hill Water System Capital Deficiency Study, Fauquier County, VA
- Marsh Run Wastewater Pump Station, Fauquier County, VA
- FCWSA Water and Wastewater Master Plan, Fauquier County, VA
- Catlett and Calverton Wastewater Collection Study, Fauquier County, VA
- Shelton Pointe Force Main and Pump Station, Hanover, VA
- Sandy Springs Pump Station and Force Main, Montgomery County, MD

#### EDUCATION:

MS/Virginia Polytechnic Institute and State University/Sanitary Engineering  
BS/Virginia Polytechnic Institute and State University/Civil Engineering

#### REGISTRATIONS:

Professional Engineer

#### EXPERIENCE:

Dewberry: 36  
Prior: 5



## Al Williams PE

### Water/Wastewater Design

Mr. Williams has over 45 years experience in various fields of engineering including water and wastewater. He is responsible for field troubleshooting and inspection for major water/wastewater construction projects. His experience includes sewer and water systems, pump stations, sewage treatment plants, and related structures.

#### SELECT EXPERIENCE

- Elmont Water Storage Tank and Booster Station, Hanover County, VA
- Goochland County Utility Master Plan, Goochland County, VA
- Zion Crossroads Wastewater Treatment Plant and Pump Station Expansion, Louisa, VA
- Louisa Regional Wastewater Treatment Plant and Pump Station Expansion, Louisa, VA
- Water Treatment Plant Improvements, City of Emporia, VA
- Leesburg Effluent Force Main Relocation, Edwards Ferry Substation, Leesburg, VA

#### EDUCATION:

BS/United States Merchant Marine Academy/Marine Engineering

#### REGISTRATIONS:

Professional Engineer

#### EXPERIENCE:

Dewberry: 3

Prior: 45



## Melanie Leckey PE

### Water/Wastewater Design

Ms. Leckey is a project engineer. She is responsible for the development of design documents, engineering studies, technical specifications, permits, and design of water and sewer improvement projects. Ms. Leckey also assists with the construction administration of water, sewer and civil engineering projects.

#### SELECT EXPERIENCE

- Elmont Water Storage Tank and Booster Station, Hanover County, VA
- Town of Colonial Beach Sewer Line Rehabilitation, Colonial Beach, VA
- Fourmile Creek Trunk Sewer Rehabilitation - Henrico County Eastern County Force Main, Henrico County, VA
- Shelton Pointe Pump Station and Force Main, Hopewell, VA
- Grassy Swamp Wastewater Pump Station, Hanover County, VA
- Cedar Lane – Winns Church – Route 33 Waterline, Hanover County, VA
- Southern Loop Waterline Improvements, Louisa, VA
- Loudoun Water Raw Water Transmission, Ashburn, VA

#### EDUCATION:

BS/Civil Engineering/George Mason University

#### REGISTRATIONS:

Professional Engineer

#### EXPERIENCE:

Dewberry: 8

Prior: 0



# Heather Campbell PE

Water/Wastewater Design

Ms. Campbell is a project manager in the Richmond office responsible for the preparation of engineering studies, technical specifications, permit applications, design of utility improvement projects, and construction administration for water, sewer, and civil engineering projects. She specializes in water system modeling, waterline extensions, and water and wastewater system evaluation for Virginia municipalities.

### SELECT EXPERIENCE

- Zion Crossroads Water and Wastewater Infrastructure Improvements, Louisa County, VA
- Town of Colonial Beach Sewer Line Rehabilitation, Colonial Beach, VA
- Sewer System Rehabilitation Town of Louisa, VA
- Cumberland County Water Improvements, Cumberland County, VA
- Water System for Old Dominion Electric Cooperative, Louisa, VA
- Eastern Elko Trunk Sewer, Henrico County, VA
- Creighton Road Tank, Hanover County, VA
- Snead Street Area Water Improvements, Hanover County, VA
- Loudoun Water Raw Water Main, Loudoun County, VA
- Buckingham Branch Water and Sewer Design, Albemarle County, VA
- Long Range Water Supply Plan, Louisa County, VA

**EDUCATION:**  
BS/Virginia Polytechnic Institute and State University/Civil Engineering

**REGISTRATIONS:**  
Professional Engineer

**EXPERIENCE:**  
Dewberry: 13  
Prior: 0



# Ashlee Marsh PE

Water/Wastewater Design

Ms. Marsh has 18 years of experience performing hydrologic and hydraulic analyses, analyzing and designing water distribution systems, sewer conveyance systems, sewage pumping stations, designing wastewater treatment plants, and general civil engineering. She has been the lead project engineer for design of several sewage pumping stations and water main extensions.

### SELECT EXPERIENCE

- Bealeton Water Treatment Plant, Fauquier County, VA
- Marshall Waterline Replacement, Fauquier County, VA
- Marsh Run Wastewater Pump Station, Fauquier County, VA
- Catlett and Calverton Wastewater Collection Study, Fauquier County, VA
- Various Sewage Pumping Stations, Prince William County, VA
- Loudoun Water Raw Water Transmission, Ashburn, VA
- Cumbo Yard Elevated Water Tank and 24-inch Water Main, Berkeley County, WV
- Broad Run Pumping Station and Force Main, Prince William County, VA

**EDUCATION:**  
BS/George Mason University/Urban Systems Engineering

**REGISTRATIONS:**  
Professional Engineer

**EXPERIENCE:**  
Dewberry: 18  
Prior: 1



## Jason Devine PE, CxA

### Mechanical Engineering

Mr. Devine is a mechanical engineer with expertise in the design of HVAC systems for municipal, educational, commercial and institutional facilities, and an additional 2 years experience as an Air Force Civil Engineering Officer. As a mechanical engineer Jason has specialized in energy modeling and the design of energy efficient heating and cooling systems. These systems include air and water cooled chillers, condensing boilers, VAV air systems, variable volume pumping systems, geothermal systems, and others as necessary to achieve high levels of energy conservation. Jason currently oversees many of our central Virginia MEP projects and serves as a client's point of contact for MEP projects.

#### EDUCATION:

BS/Mechanical Engineering/ Virginia Military Institute

#### REGISTRATIONS:

Professional Engineer  
Certified Commissioning Authority

#### EXPERIENCE:

Dewberry: 8  
Prior: 1

### SELECT EXPERIENCE

- Robin Grove Booster Water Storage Tank and Booster Station, Town of Colonial Beach, VA
- Alderman Road PH-3 Utilities, University of Virginia, Charlottesville, VA
- Elmont Water Storage Tank and Booster Station, Hanover County, VA
- Zion Crossroads Wastewater Treatment Plant Expansion, Louisa County, VA
- Emporia Water Treatment Plant Improvements, Emporia, VA
- Renovations to City of Richmond Fire Stations #1, 10, 13, 23, Richmond, VA



## Steve Webb PE

### Electrical

Mr. Stephen Webb is an Associate and Manager of Electrical Engineering with Dewberry. Mr. Webb has experience in power network and distribution systems, power system analysis & control, power system protection and alternate energy systems and SCADA systems. Included in Mr. Webb's electrical experience is the design of special systems such as telecommunications infrastructure, fire alarm, intrusion detection, camera surveillance, and card access.

#### EDUCATION:

BS/Electrical Engineering/Virginia Polytechnic Institute & State University

#### REGISTRATIONS:

Professional Engineer

#### EXPERIENCE:

Dewberry: 15  
Prior: 0

### SELECT EXPERIENCE

- Zion Crossroads Wastewater Treatment Plant Expansion, Louisa County, VA
- Water Treatment Plant Improvements, Emporia, VA
- Grassy Swamp Wastewater Pump Station Hanover County, VA
- Louisa Regional Wastewater Treatment Plant Expansion, Louisa County, VA
- Shelton Pointe Pump Station and Force Main, Hanover County, VA



## Joe Wolhar PE

### Structural

Mr. Joseph Wolhar is a senior structural engineer responsible for structural analysis and design of buildings. Additional responsibilities include supervising drawing production on projects which he designs.

#### SELECT EXPERIENCE

- Water Treatment Plant Improvements, Emporia, VA
- Wastewater Treatment Plant Solids Handling Modifications, Emporia, VA
- Zion Crossroads Wastewater Treatment Plant Expansion, Louisa County, VA
- Robin Grove Booster Water Storage Tank and Booster Station, Town of Colonial Beach, VA
- Elmont Water Storage Tank and Booster Station, Hanover County, VA
- Town of Colonial Beach Water System Improvements, Colonial Beach, VA
- Beaverdam High School Well House Improvements, Hanover, VA
- Fourmile Creek Trunk Sewer Rehabilitation, Henrico, VA

#### EDUCATION:

MS/North Carolina State University/  
Civil Engineering

BS/North Carolina State University/  
Civil Engineering

#### REGISTRATIONS:

Professional Engineer

#### EXPERIENCE:

Dewberry: 23

Prior: 4



## Tim Ly PE

### I&C/SCADA

Mr. Ly has 20 years experience working in the consulting engineering field, performing electrical, lighting, instrumentation and controls design for municipal, industrial and DoD water and wastewater facilities. Previously, he's managed an Instrumentation and Controls (I&C) group, responsible for overall project management and design, project scoping and fee estimation, and quality assurance and quality control reviews. He has regularly participated in value engineering programs to enhance project designs, designed radio and telephone based supervisory control and data acquisition (SCADA) systems, and conducted facility assessments, analysis.

#### SELECT EXPERIENCE

- Elmont Water Storage Tank and Booster Station, Hanover County, VA
- Harwood's Mill Water Treatment Plant Manganese Removal and Disposal Facilities, City of Newport News, VA
- Haymarket Tank Booster Pump Station, Prince William County, VA
- Sunnybrook Wastewater Pumping Station, Chesterfield County, VA
- Elevated Storage Tank Located at 501 K Street, Brunswick, VA

#### EDUCATION:

BS/Virginia Polytechnic Institute  
and State University/Electrical  
Engineering

#### REGISTRATIONS:

Professional Engineer

#### EXPERIENCE:

Dewberry: 1

Prior: 20



## Matt Thomas PE

### Roadway

Mr. Thomas is a project manager with expertise in roadway design, transportation planning, traffic analysis, and interchange design. He has been involved in all aspects of transportation projects as a project manager, including temporary traffic control plans (TCC), drainage design, erosion and sediment control, grading, and horizontal and vertical alignment design. In addition, Mr. Thomas has a broad range of expertise that includes geometric design, hydraulic analysis, environmental coordination, and TCC Plans.

#### EDUCATION:

BSCE/Virginia Polytechnic Institute and State University/Civil Engineering

#### REGISTRATIONS:

Professional Engineer  
VDOT Advanced Work Zone Traffic Control Certified

#### EXPERIENCE:

Dewberry: 10  
Prior: 1

#### SELECT EXPERIENCE

- Suffolk College Drive Water Distribution Main Improvements, Suffolk, VA
- Downtown Improvements Phase II, Town of Louisa, VA
- Atlee Manor Sewer, Hanover, VA
- Fourmile Creek Trunk Sewer Rehabilitation, Henrico, VA
- Lockridge Route 33 Development, Louisa, VA
- Fort Lee Garrison "A" Gate Roundabout, Prince George County, VA
- Route 15 Improvements, Prince William County, VA
- Route 58 Improvements, Pittsylvania County, VA



## Meaghan O'Brien PE, LEED AP

### Site/Civil

Ms. O'Brien is a project manager and has 16 years experience as a site development, transportation, and drainage engineer. Ms. O'Brien's responsibilities as technical expert and project manager include all aspects of site development, stormwater, and drainage design of a project. Her experience includes both small and large private commercial projects, institutional, large corporate and industrial projects. She has extensive experience with master planning, due diligence/site selection, and special needs facilities.

#### EDUCATION:

BS/Virginia Polytechnic Institute and State University/Civil Engineering

#### REGISTRATIONS:

Professional Engineer  
LEED Accredited Professional

#### EXPERIENCE:

Dewberry: 1  
Prior: 15

#### SELECT EXPERIENCE

- Elmont Water Storage Tank and Booster Station, Hanover County, VA
- Louisa Regional WWTP Septage Receiving Station and Chemical Feed Facility, Louisa, VA
- Emporia Water Treatment Plant, Emporia, VA
- Robin Grove Booster Water Storage Tank and Booster Station, Town of Colonial Beach, VA



# Mike Hoover LS

## Survey

Mr. Hoover is a senior surveyor for Dewberry. He has extensive experience developing topographic surveys. His experience includes scheduling, coordination, computation, and drafting of boundary, topographic, and construction stakeout surveys. Projects include municipal, residential, office, commercial, and infrastructure construction.

### SELECT EXPERIENCE

- Zion Crossroads Water and Wastewater Infrastructure Projects, Louisa, VA
- Edwards Ferry Substation Effluent Force Main Relocation – Design/Build Leesburg, VA
- Colonial Beach Waterline Replacement Projects, Colonial Beach, VA
- Cumberland County Water and Sewer Improvements, Cumberland County, VA
- University of Virginia, Central Ground Domestic Waterline Improvements, Charlottesville, VA
- Water and Sewer Improvements, Albemarle County, VA
- Virginia Public Safety Driver Training Facility, Virginia State Police, Fort Pickett, VA

**EDUCATION:**

AAS/Shawnee State Community College/Civil Engineering

**REGISTRATIONS:**

Professional Land Surveyor

**EXPERIENCE:**

Dewberry: 32

Prior: 5



# Troy Shelton

## Environmental

Mr. Shelton’s capacity as an Environmental Scientist encompasses a wide range of environmental issues. In addition to providing environmental site assessments and groundwater monitoring services, Mr. Shelton is trained in USACE wetlands delineation and possesses comprehensive knowledge of the Clean Water Act Section 404 and 401.

### SELECT EXPERIENCE

- Elmont Water Storage Tank and Booster Station, Hanover County, VA
- Raw Water Intake and Water Treatment Plant Improvements, Emporia, VA
- Buckingham Circle Water/Sewer Project, Charlottesville, VA
- Stony Run Interceptor Phase 6, Hanover, VA
- Western Ridge-Foxchase Water Connection Project, Crozet, VA
- Virginia Community College System Term Contract, Statewide, VA
- Walmart, Various Locations, NC, VA
- Berry Hill Mega Park, Pittsylvania County, VA

**EDUCATION:**

BS/Ferrum College/Environmental Science

**EXPERIENCE:**

Dewberry: 14

Prior: 5



## R. Alan Burchette AIA

### Architecture

Mr. Burchette is the architectural department manager and project manager with Dewberry. He has been involved with every phase of the architectural process including design, construction, document preparation, construction administration, inspection, and supervision. He has experience in all facets of architectural design and project management.

#### SELECT EXPERIENCE

- Emporia Water Treatment Plant, Emporia, VA
- Zion Crossroads Wastewater Treatment Plant and Pump Station Expansion, Louisa, VA
- Louisa Regional Wastewater Treatment Plant and Pump Station Expansion, Louisa, VA
- Sewer System Improvements, Clarksville, VA

#### EDUCATION:

BA/Architecture/Virginia Polytechnic Institute and State University

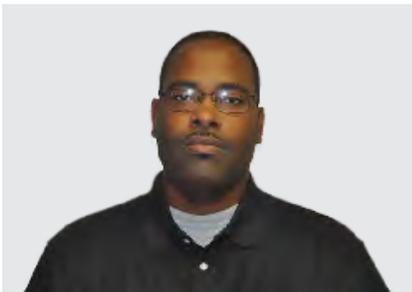
#### REGISTRATIONS:

Registered Architect

#### EXPERIENCE:

Dewberry: 35

Prior: 2



## Louis Jarrett

### Construction Inspection

Mr. Jarrett has 14 years experience in major civil/engineering projects. He has developed excellent office management and record keeping skills and has assisted VDOT in setting up new financial management spreadsheets. Mr. Jarrett has knowledge of various inspection methods, standards and specifications, as well as state and federal environmental, safety, DBE/EO/CR regulations. He has significant knowledge of road and bridge construction standards, specifications, MUTCD, environmental regulations, safety requirements and federal and state labor regulations.

#### SELECT EXPERIENCE

- ITS On-Call Technical Services NOVA Region, VDOT, Northern VA District
- Fort Lee Garrison "A" Gate Roundabout, Prince George County, VA
- Route 123 Bridge Over the Occoquan River, Prince William and Fairfax County, VA
- Route 627/I-95 Interchange, VDOT, Stafford County, VA
- Martin Luther King Bridge, VDOT, Petersburg Residency
- Interstate 85, VDOT, Petersburg Residency

#### REGISTRATIONS:

Soil and Aggregate Field Compaction, VDOT: VA

Asphalt Field, VDOT: VA

Hydraulic Concrete Cement Field, VDOT: VA

Pavement Markings, VDOT: VA

Flagger Certification, VDOT: VA

Erosion & Sediment Control Inspector, DCR: VA

Nuclear Gauge Safety Training, Troxler:

OSHA 10 Hour Construction Safety: US

#### EXPERIENCE:

Dewberry: 5

Prior: 9



## Jeremy L. Mydlinski PE

Geotechnical



Mr. Mydlinski has experience in geotechnical engineering and construction management throughout the Washington, DC, and Richmond, Virginia, metropolitan areas. He currently works out of Schnabel's Richmond, Virginia, office. Mr. Mydlinski has experience in completing the design and implementation of geotechnical engineering studies for major infrastructure projects, commercial developments and office parks, and residential developments. He also manages construction phase services for a variety of geotechnical and structural projects throughout the Richmond metropolitan area.

### EDUCATION:

MS/Virginia Polytechnic Institute and State University/Civil Engineering

BS/Virginia Polytechnic Institute and State University/Civil Engineering

### REGISTRATIONS:

Professional Engineer

### EXPERIENCE:

Schnabel: 19

Prior: 1

### SELECT EXPERIENCE

- Zion Crossroads Wastewater Treatment Plant Expansion, Louisa County, VA
- Elmont Water Storage Tank and Booster Station, Hanover County, VA
- Robin Grove Booster Water Storage Tank and Booster Station, Town of Colonial Beach, VA
- Merchant's Walk, Zion Crossroads, Louisa County, VA
- Eastern Goochland Pump Station and Sewer, Patterson Avenue, Goochland County, VA
- Ivy Road-Flordon Interconnect Water Main, Albemarle County, VA
- Rivanna River Water Main Crossing, Albemarle County, VA

# F. Demonstrated History of Successful Projects

*Discuss the Offeror's ability to work in harmonious, non-adversarial relationships with Fluvanna County and their agents.*

Dewberry's ability to work in harmonious, non-adversarial relationships with our clients and their agents is perhaps best demonstrated by the long term relationships that we develop with our local, municipal clients. Our project team

for the design of these water/wastewater improvements will work with you throughout the life of this contract. Our team partners with local municipalities on water/wastewater infrastructure projects on a regular basis. Because of this, we have been able to develop long-term relationships with many of the local municipal clients that we serve. The table below demonstrates our team's continuity and just a few of the long term relationships that we have with local municipal clients similar to Fluvanna County.

## Dewberry's History of Long Term Relationships

Client	Years Served	Team Members Involved	Sample Project Types
Hanover County	20+	Dan Villhauer Dave Maxwell Heather Campbell Melanie Leckey Al Williams Jeff Chapin	<ul style="list-style-type: none"> <li>Water and Wastewater Facilities Master Plan through 2042</li> <li>Atlee Manor and Sharon Park Sewer Service District</li> <li>Elmont Water Storage Tank and Booster Station</li> <li>Beaverdam Elementary School Well House Improvements</li> <li>Creighton Road Elevated Water Storage Tank</li> <li>Shelton Pointe Pump Station</li> <li>Cedar Lane – Winns Church – Route 33 Waterline</li> </ul>
Louisa County	20+	Dan Villhauer Dave Maxwell Heather Campbell Al Williams Melanie Leckey	<ul style="list-style-type: none"> <li>Louisa Regional WWTP Design Upgrades</li> <li>Zion Crossroads WWTP Upgrades</li> <li>Zion Crossroads Master Planning</li> <li>Zion Crossroads Sewer Collection System</li> <li>Zion Crossroads Water System Improvements</li> </ul>
City of Emporia	6+	Dan Villhauer Dave Maxwell Heather Campbell Al Williams Melanie Leckey	<ul style="list-style-type: none"> <li>Water Treatment Plant Improvements</li> <li>WWTP Solids Handling Facilities Modifications</li> <li>Water Distribution System Improvements</li> <li>West Atlantic Neighborhood Revitalization</li> <li>West Atlantic Gravity Sewer Replacement</li> </ul>
Town of Colonial Beach	15+	Dan Villhauer Dave Maxwell Heather Campbell Melanie Leckey Al Williams	<ul style="list-style-type: none"> <li>Preliminary Engineering Report Water System Evaluation</li> <li>Monroe Bay Waterline Replacement</li> <li>9th Street – Beach Avenue Waterline Replacement</li> <li>3rd Street Waterline Replacement</li> <li>Sewer System Improvements</li> <li>Robin Grove Booster Water Storage Tank and Booster Station</li> </ul>

## G. Proposed Sub-Consultants

*The Offeror shall clearly state whether it is proposing to subcontract any of the work herein. The names of all proposed sub-consultants shall be provided. By proposing such firm(s) or individuals, the Offeror assumes full liability for the sub-consultant's performance. The Offeror shall state the amount of previous work experience with the sub-consultant(s).*

Our team is prepared to offer a majority of the services required for this contract in-house. To provide full coverage, we have added Schnabel Engineering as a subconsultant to provide geotechnical support for this contract. Schnabel has provided geotechnical support for numerous water/wastewater projects with Dewberry. This has included providing their specialized service for the team's work for Louisa County within the Zion Crossroads Service Area. Below we have provided a brief firm profile highlighting their capabilities.



Schnabel Engineering is a recognized leader in engineering, providing solutions to complex geo-related challenges for more

than 55 years. They offer the expertise of a large firm with the personalized attention characteristic of smaller firms.

We provide clients exceptional value in terms of meeting their project needs while attaining cost-savings. Feedback from clients indicates that Schnabel's value has been most identifiable with our ability to:

- Complete projects on-time and on-budget
- Identify cost and schedule savings through innovative approaches
- Manage and minimize clients' construction-related risks
- Avoid costly redesigns due to unforeseen conditions

Specialized Services:

- Geotechnical Engineering
- Dam and Levee Engineering
- Tunnel Engineering
- Geostructural Engineering
- Environmental Services
- Construction Services

## H. Project Approach

### *Offeror's Project and Management Approach:*

Our team has extensive experience in providing engineering services for task orders under water/wastewater contracts. We know what it takes to manage and execute the design of each task order for this contract and have demonstrated the ability to deliver on task orders for multiple municipal clients throughout Virginia. Our task order expertise, coupled with our extensive master planning and water and wastewater infrastructure design experience will be a great asset to the County in water and sewer system design.

Dewberry's general approach for this project is to minimize costs while maximizing potential for growth within the Zion Crossroads area. The build, grow, build, grow model would enable the County to invest in water/wastewater infrastructure in small increments and would allow the revenue earned from growth to fund future infrastructure improvements. We have outlined a potential strategy to accomplish this in our initial PER validation.

### INITIAL PER VALIDATION

We understand that Fluvanna County requires that the engineer selected for this project conduct a thorough review of the Preliminary Engineering Report (PER) that was prepared by RK&K. Dewberry is uniquely qualified for this through our expertise in master planning and unparalleled knowledge of the Zion Crossroads area. In fact, we have already started the PER validation process and have developed some potential alternatives for Fluvanna County to consider.

### Water System

Based on our review of the PER, full build out of the proposed Zion Crossroads Community Planning Area is not expected to occur for at least 50 years and even the 50% build out projections may not occur for at least 25 to 30 years. Additionally, the area that is most likely to significantly develop first is the Route 15 and Route 250 intersection. Utilizing the phased approach recommended by the PER, an option that Fluvanna County could consider further is a short term connection to the Louisa County Water Authority (LCWA) water system at Zion Crossroads.

It is anticipated that the new LCWA Water Treatment Plant (WTP) and finished water line to the Zion Crossroads service area will be completed within the next 2 to 3 years. Once this project is in service, LCWA will have excess

### DEWBERRY'S EXPERIENCE AND SERVICES INCLUDE:

- Utility Master Planning
- Distribution System Design
- Collection/Conveyance System Design
- Pump Station Design
- Treatment Plant Design
- Environmental Services
- Permitting Assistance

capacity to provide finished water to Fluvanna County. Currently, a 12-inch waterline is located adjacent to the Fluvanna County line at the intersection of Route 15 and Route 250. The suggested short term option would consist of a connection to the existing LCWA 12-inch waterline and the construction of a 12-inch waterline extension within the Route 15/Route 250 area of Fluvanna County (See Figure 1 on following page). The County could initially negotiate storage and supply capacity with LCWA in order to put off the capital expense of an elevated tank. Then, once the County was able to generate additional revenue through connection and user fees or if a larger user was planned, the County could build the proposed 500,000 gallon elevated tank.

The additional benefit of connecting to the LCWA system is that the construction of a tank would not require the construction of a booster pump station as the LCWA WTP high service pumps would serve to pump water into both the LCWA tank and the Fluvanna County tank. As development expanded westward towards the Department of Corrections (DOC) water treatment plant, the 12-inch main could be extended along Route 250 and eventually the DOC booster pump station could be constructed to allow for a secondary source of water. Once the secondary source of water was available, Fluvanna County could have the option of pulling from either source depending on need and the cost of water.

Although the cost of water is significantly less from the DOC than LCWA, a net present worth analysis should be conducted to evaluate how long it would take for the lower cost water savings from the DOC to equal the additional capital and operating costs of a booster station and 25,000 linear feet of water main.



## Wastewater System

For wastewater collection and disposal, a short term connection to LCWA could also be considered. Again, as discussed in the water section, the initial area of the majority of the development is expected to occur in the Route 15/Route 250 area. The PER states that in order to extend sewer to an LCWA collection main with adequate capacity, the Fluvanna County force main would have to be extended approximately 2.8 miles to an 18-inch gravity interceptor. However, there are two mains on the south side of Route 64 that could be connected into as a short term option. The first is a 10-inch gravity sewer located on the west side of Route 15 and the second is an 8-inch force main, located on the east side of Route 15 that was just installed parallel to the Zion Crossroads WWTP relocated outfall force main. The 8-inch force main is routed up to the 18-inch gravity interceptor and currently has little to no flow. It would be worthwhile to investigate connecting into either this force main or 10-inch gravity sewer as either connection would only require the extension of approximately 1,500 to 2,500 linear feet of force main (See Figure 2 on following page). Similar to the water option, the Fluvanna force main could eventually be extended westward along Route 250 as development increased and flow direction could be rerouted if deemed advantageous in the future due to lower wastewater treatment rates from the DOC.

It is estimated that both of the proposed short term water and sewer options would initially save the County millions of dollars in capital cost. This would allow the Zion Crossroads CPA to expand in a fiscally conscientious manner but at the same time without stunting growth.

## PROJECT CHALLENGES

In order to complete this kind of project successfully, your engineer will need to understand the unique challenges that the County will have to overcome in this project. Through our experience in completing the same kinds of projects for neighboring municipalities, we have outlined a few of these challenges that will have to be taken into consideration during planning, design, and operation.



### ZION CROSSROADS WATER AND WASTEWATER INFRASTRUCTURE PROJECTS

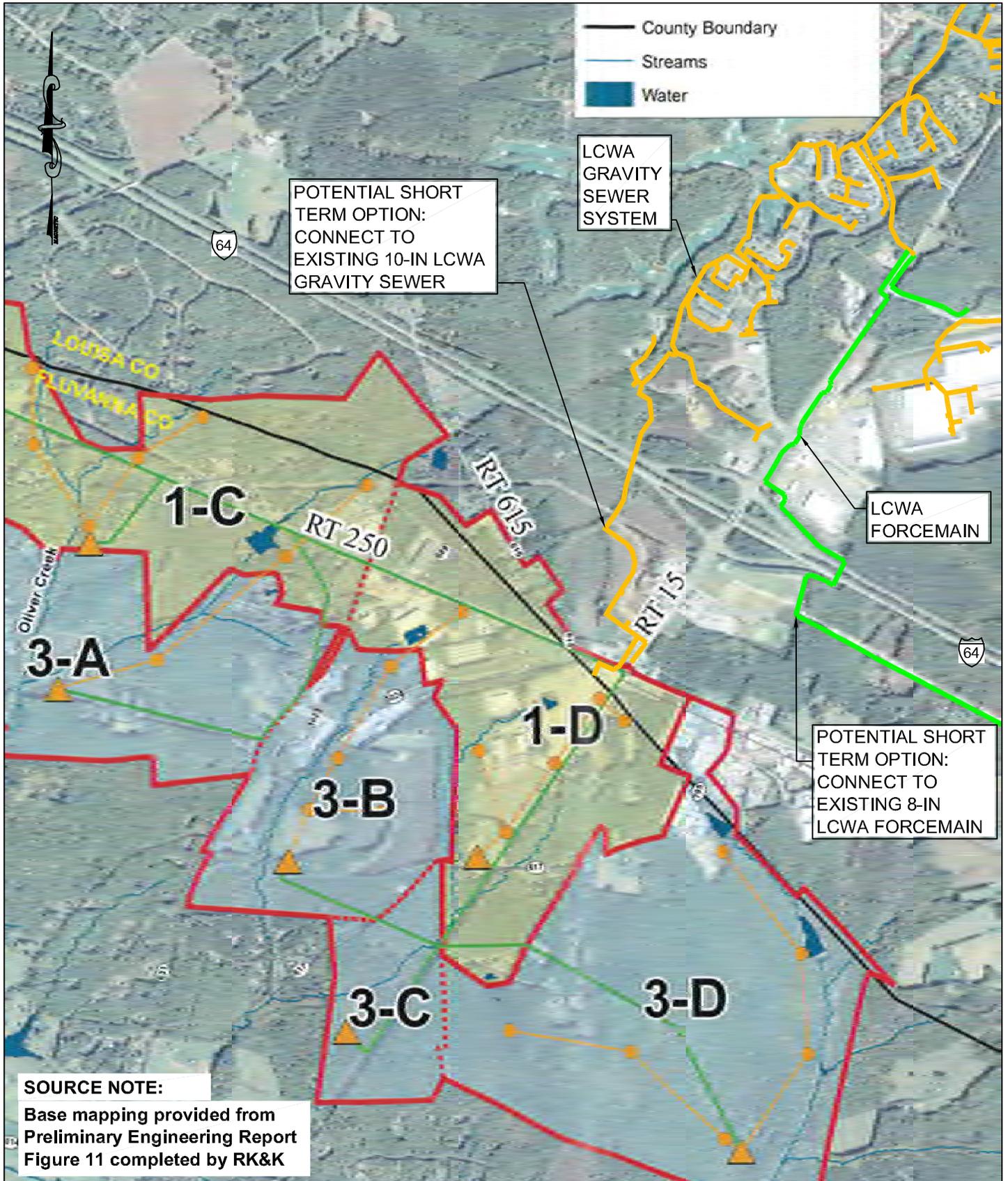
The Dewberry team has provided full design and construction administration for water and sewer infrastructure to Louisa County over the last 20 years within the Zion Crossroads area.

## Initial Operations

We understand the challenges of building a water and wastewater system from scratch and we know that this undertaking is a challenge not only in planning, but also in initial operations. For instance, it will be important to conduct water quality modeling to optimize system and tank turnover to minimize flushing and water quality issues. The tank inlet/outlet configuration, mixing, and operation should be properly designed to allow for initial operation while maintaining flexibility for further growth.

With new wastewater systems, the typical issues are long residence times in gravity sewer and force mains, which will result in high hydrogen sulfide production, causing odor issues and premature deterioration of piping and manholes. The system sizing should balance both future capacity needs and initial operating conditions. It is critical to properly select pipe materials, coatings, and odor/corrosion control technologies to mitigate the initial operating issues and prevent premature deterioration of the wastewater system infrastructure.

Dewberry has extensive experience in helping municipalities build water and wastewater systems from scratch. We just assisted Louisa County to do the same exact thing in their Zion Crossroads service area and have also assisted Cumberland County and Hanover County in providing service to new service areas. We understand how to successfully complete this kind of project in this area and our experience will be of great benefit to the County throughout the entire process.



**SOURCE NOTE:**

Base mapping provided from Preliminary Engineering Report Figure 11 completed by RK&K



**Dewberry**  
Dewberry Engineers Inc.

4805 LAKE BROOK DRIVE, SUITE 200  
GLEN ALLEN, VA 23060  
PHONE: 804.290.7957  
FAX: 804.290.7928

DATE  
JULY 2015

RFP. NO.  
#2015-03

TITLE  
SHORT TERM OPTIONS  
SEWER SYSTEM

PROPOSAL  
ZION CROSSROADS WATER & SEWER  
SYSTEM DESIGN SERVICES

FIGURE NO.

2

### Hydraulic Transients for Water and Wastewater Pump Stations

Since both the proposed water and wastewater systems will have long transmission mains and force mains, the potential occurrence of transients (i.e. water hammer) will have to be evaluated during the design stage. Dewberry uses transient analysis modeling software to simulate various “worst-case” transient events, which allows us to select and size appropriate surge mitigation equipment such as strategically placed combination air vents, surge relief valves, and surge tanks, as needed. Properly selected and sized surge mitigation devices will extend the life of the pumps, valves, and piping within a water or wastewater system and minimize the probability of catastrophic system failures and disruptions of service.

### Permits and Approvals

Multiple permits and approvals will be required for the water and wastewater systems from VDH, DEQ, VDOT, and Thomas Jefferson Soil and Water Conservation District (TJSWCD). Proper coordination and knowledge of regulatory requirements will be essential to making sure the each task order stays on schedule and is on budget. Through our over 20 years of experience in working in the Zion Crossroads area, we have developed good long standing relationships with the local regulatory agencies and an expertise in the regulatory requirements of the area.

### Coordination with Adjacent Municipalities

Dewberry has worked extensively with both neighboring municipalities (Louisa County and Albemarle County) that Fluvanna County is considering connecting to in the future. Coordination with these municipalities will be important for ensuring that all available options for water supply and wastewater disposal are available. Dewberry’s good relationships with the adjacent municipalities will be a great asset to the County during coordination efforts.



**CEDAR LANE-WINNS CHURCH ROAD-ROUTE 33 WATERLINE AND FORCE MAIN**

The Dewberry team provided full design and construction administration for 5 miles new waterline and force main, which required close coordination with the County to acquire 90 easements while maintaining the project schedule.

### Easement Acquisition

Easement acquisition will be critical to allowing the construction of the water and wastewater pipelines for this project. Dewberry is very experienced in assisting municipalities in acquiring easements. For example, we recently completed a 5-mile water main and force main project in Hanover County in which we were instrumental in assisting the County with acquiring 90 easements for the pipeline. The efficiency of the easement process allowed the project to stay on schedule.

Our team is ready to partner with Fluvanna County on this project. Through our review of the PER we are prepared to work with the County to evaluate all possible options and implement the best solution for the full design of the water and sewer systems for the Zion Crossroads area. With our knowledge of the project area, understanding of project challenges, and our water/wastewater expertise for infrastructure improvements, we are ready to provide the County with exceptional service for this project.

# I. Representative Projects

*This section of the Offeror’s Proposal should list and describe representative clients currently served focusing on water and sewer system design projects. Describe the local office experience including the project name and location, brief description of the project, description of the scope of services provided, and principal contact person.*

Dewberry is the “engineer of choice” for many of our long term clients to provide water/wastewater engineering services on complex infrastructure projects. Our projects have encompassed a wide scope of services that match the anticipated services for this project. Our team’s experience includes water distribution and wastewater collection systems, water storage tanks, and water and wastewater pump stations.

We would like to call your attention to the table below and note our experience with Louisa County, Hanover County, Goochland County, City of Emporia, Cumberland County, Town of Colonial Beach and Fauquier County, which demonstrates our expertise in working with municipalities of similar size to Fluvanna County. We have provided project sheets on the following pages to further demonstrate this team’s depth and breadth of experience providing water/wastewater expertise.

## Dewberry’s Recent Water/Wastewater Project Experience

Project Name	Water/Wastewater Pumping and Water Booster Pump Stations	Water/Wastewater Master Planning	Water and Sewer System Modeling	Water Distribution/Wastewater Collection Piping	Water Storage Tanks	Well Facilities	Surveying	Environmental	Site Plan Engineering and Storm Water Drainage	Coordination With Regulatory Agencies	Construction Administration
Zion Crossroads Water and Wastewater Infrastructure Improvements	●	●	●	●	●	●	●	●	●	●	●
Hanover County Water/Wastewater Engineering	●	●	●	●	●	●	●	●	●	●	●
Goochland County On-Call Contract for Water/Wastewater Engineering	●	●	●	●			●	●	●	●	●
Emporia Water/Wastewater System Improvements	●		●	●			●	●	●	●	●
Cumberland County Water and Sewer System Master Plan and Design	●	●	●	●	●	●	●	●	●	●	●
Colonial Beach Water and Sewer System Evaluation and Improvements	●	●	●	●	●	●	●	●	●	●	●
Fauquier County Water Service Authority Water/Wastewater Engineering	●	●	●	●	●	●	●	●	●	●	●



# Zion Crossroads Water and Wastewater Infrastructure Improvements

Louisa County, VA

Dewberry has been working with Louisa County over the last 20 years on a variety of projects involving water and wastewater system improvements throughout the Zion Crossroads area. These improvements involve system expansion to address new development projects. Project elements include water line extensions, sanitary sewer extensions, wastewater treatment facilities, water storage tanks, and pump stations.

## **Master Plan For Zion Crossroads:**

Dewberry provided engineering services for the development of a water and sewer master plan for the Zion Crossroads service area, to serve the extensive growth in the near future. Project activities included an evaluation of existing water and wastewater facilities, modeling, population and demand projections, and recommendations and budgetary cost estimates for system improvements required to meet existing and future demands.

**Zion Crossroads Water System Improvements:** Dewberry assisted the Louisa County Water Authority

with comprehensive water system improvements in the Zion Crossroads Area. This project consists of four (4) phases, including the design of approximately 30,000 LF of 4-inch, 6-inch, and 12-inch waterline, six (6) wells, one (1) 500,000 gallon elevated storage tank, and two (2) directional bores.

## **Zion Crossroads Central Sewer Collection System and Wastewater Plant:**

At the conclusion of the master plan for Zion Crossroads, Dewberry provided design, surveying, environmental permitting, and construction administration services for sanitary sewer improvements. These projects included design of over 5,500 LF of 18-inch Gravity Sewer, approximately 2,100 LF of 6-inch, 8-inch, and 12-inch sanitary forcemain, two duplex sanitary pump stations and a regional wastewater treatment plant.

## **Zion Crossroads Wastewater Treatment Plant Expansion:**

Dewberry prepared a preliminary engineering report and provided engineering services for the design and

### **CLIENT:**

Louisa County Water Authority

### **CONTACT:**

Pam Baughman  
General Manager  
540.967.1122

construction administration for the expansion of the existing wastewater treatment plant (WWTP) from 0.10 MGD to a Limit of Technology (LOT) Enhanced Nutrient Removal (ENR) 0.70 MGD WWTP. It was designed to meet Total Nitrogen (TN) and Total Phosphorus (TP) limits of 3.0 mg/L and 0.3 mg/L, respectively.

The project included an upgrade of the influent lift station, conversion of the existing SBR reactor to Aerobic Digesters and the addition of a new grit chamber, equalization Basin/pump station, a 5-Stage Bardenpho biological reactor, secondary clarifiers, tertiary filters, chemical feed facility, UV disinfection basin, post aeration basin, effluent pump station, and biosolids dewatering facility.



## Hanover County Water/Wastewater Engineering

Hanover County, VA

Dewberry provides complete engineering services for numerous water and sewer related projects under an annual contract for the Hanover County Department of Public Utilities. Task orders include:

### **Facilities Master Plan Update:**

Dewberry worked with the DPU to update the Department's Facilities Master Plan to project capital improvement requirements through the Year 2042.

### **Creighton Road Water Tank and Water Line Improvements:**

Dewberry developed a preliminary engineering study and full design and construction services for a 1.0 MG elevated water storage tank and 1,000 LF of water line to connect the tank to the County's existing water system.

**Shelton Pointe Pump Station and Force Main:** Provided comprehensive engineering, design, and construction administration services for the Shelton Pointe Pump Station and Force Main. The pump

station is a 5-MGD submersible station with headworks that is expandable to 12-MGD.

### **Grassy Swamp Wastewater Pump Station:**

Design and construction administration for a new wastewater pump station. The pump station is initially designed for 2 MGD, but is expandable to 5.75 MGD to accommodate future growth. Dewberry is also designing the sewer interceptor to the pump station and force main from the pump station under separate projects.

### **Cedar Lane-Winns Church Road-Route 33 Waterline and Force Main:**

Dewberry provided full engineering, survey, design, and construction services for a new 36" diameter trunk sewer line, a submersible pump station with an initial capacity of 2 MGD expandable to 5.75 MGD, 4 miles of 16" diameter force main, and 5 miles of 16" diameter water line.

### **CLIENT:**

Hanover County DPU

### **CONTACT:**

Gary Craft, PE  
Deputy Director  
804.365.6236

### **Elmont Water Storage Tank and Booster Station:**

Dewberry is providing engineering services with the completion of a preliminary engineering report, full engineering design services and construction administration to develop the new Elmont Pressure Zone which will be located in the southwestern portion of Hanover County's Suburban Service Area. The proposed system will include a 1.0 million gallon storage tank and a 4.0 MGD booster station to pump finished water from the Ashland Pressure Zone into the proposed Elmont Pressure Zone.



## Goochland County On-Call Contract for Water/Wastewater Engineering

Goochland County, VA

Dewberry provides complete engineering services for numerous water and sewer related projects under an annual contract for Goochland County. Task orders include:

### **Water and Sewer Master Plan:**

Dewberry completed a County-wide water and sewer master plan. This also included the development of water and sewer models for use in evaluating existing operations and future growth.

### **Rivergate Pump Station**

**Replacement:** This project involves the demolition of an existing pump station and the construction of approximately 2,500 LF of 12-inch gravity sewer. The project will eliminate a pump station that has been problematic for the County for years. The proposed gravity sewer alignment will include a jack and bore under State Route 6 and will connect into the Eastern Goochland Pump Station interceptor.

### **Valley View Pump Station**

**Improvements:** Dewberry developed a preliminary engineering study to evaluate the existing pump station to recommend improvements. This included an evaluation of the existing pump performance, the addition of an emergency pump around system, as well as many other improvements to enhance pump station operation, reliability, and safety. Upon completion of the evaluation, Dewberry prepared plans and specifications for the improvements and provided construction administration services.

### **Water System Improvements:**

As part of the water and wastewater master plan, Dewberry identified necessary water system improvements to improve water system pressure, fire flow availability, and water quality. Dewberry is currently providing design and construction administration

**CLIENT:**  
Goochland County

**CONTACT:**  
Todd Kilduff, PE  
Director of Public Utilities  
804.556.5835

services for the identified projects. The recommended improvements included modifying the distribution water system pressure zones, adding a tank mixer, taking an existing tank offline, constructing a new flow control vault, and adding a chloramine booster station. As part of this project, the water distribution system SCADA system will also be modified for the control and monitoring of the improved water facilities.



# Emporia Water/Wastewater System Improvements

Emporia, VA

Dewberry is assisting the City of Emporia with evaluation, design, and construction services for water/wastewater system improvements.

**Raw Water Intake Replacement:**

Provided permitting, evaluation, design, and construction administration for construction of a new 4.0 MGD (expandable to 6.0 MGD) raw water intake structure to allow for a reliable raw water source for the City. This intake structure consists of four (4) 1.0 MGD wedge wire screens mounted on an intake manifold and includes an air burst system to keep the screens from clogging.

**Water Treatment Plant**

**Upgrades:** Dewberry provided engineering services for the upgrade of a 4.0 MGD conventional water treatment plant. As part of this project, a Preliminary Engineering Report (PER) was developed to evaluate improvements to the existing water treatment plant. Based on the evaluation in the PER it was recommended that the existing granular media filters be replaced with an ultra-filtration membrane system. A pilot study was conducted

concurrently for two membrane manufacturers to select a membrane system for the plant upgrade. The design provided the capability for an expansion to a 6.0 MGD with minimal upgrades if additional capacity is required in the future.

**Wastewater Treatment Solids Handling Facilities**

**Modifications:** Providing comprehensive professional engineering services including permitting, preliminary engineering, design, construction administration, and construction inspection for modifications to the City’s Wastewater Treatment Plant Solids Handling Facilities. The project includes modifications to the existing solids handling process, which did not perform to specifications, to an aerobic digestion and solids dewatering facility for the purposes of producing Class B sludge and hauling to a landfill for ultimate disposal.

**West Atlantic Street Sanitary Sewer Replacement:**

Dewberry provided design, construction administration, and inspection services for the removal and replacement of existing concrete gravity sanitary

**CLIENT:**  
City of Emporia

**CONTACT:**  
Linwood Pope  
Director of Public Utilities  
434.634.4500

sewer due to its age and continuing maintenance issues. In addition to bid document preparation, design services also included geotechnical borings, and field survey. The project consisted of the replacement of approximately 490 LF of 10-inch sewer, 1,230 LF of 8-inch sewer, replacement of associated manholes, reconnection of existing service laterals, and pavement restoration.

**Water Distribution**

**Improvements:** Dewberry provided engineering services for distribution system improvements throughout the City. Improvements included a crossing under Interstate 95, reinforcement of the existing 12 inch waterline across the dam, multiple interconnections, new hydrants, new water services, and abandonment of existing waterlines.



# Cumberland County Water and Sewer System Master Plan and Design

Cumberland County, Virginia

Dewberry assisted Cumberland County under a term contract for engineering services. Services provided included master planning, design, and construction services for central water and sewer systems within the Courthouse District.

**Cumberland Courthouse Water System Study:** Dewberry developed a PER to reevaluate the scope and alternatives of a previous study to provide water services to the area. The project serves approximately 200 customers. The water system design includes approximately 37,000 LF of water main, wells with treatment systems, and an elevated water tank.

**Courthouse and School Water Supply Wells:** Identified and developed a public water supply to serve the Cumberland County Courthouse Complex and Middle/High School. Extensive geophysical investigations conducted for potential well sites and three candidates

identified for test well construction.

Dewberry prepared construction documents for the development of test wells and is assisting with construction services. A report identified a cost effective solution for full development of test wells to be used as a public water supply well.

**Cumberland Courthouse Central Water System Design:** Designed a new water supply for the Courthouse and High School. Developed design plans for well facilities, treatment systems, storage tanks, and distribution lines for two separate systems that will be expanded to serve the Route 60 Courthouse Corridor in the future.

**Cumberland Courthouse/Route 45 Sewer Improvements:** Sewer system improvements within the County Courthouse/Route 45 area. The \$7 million project included 62,000 LF of gravity sewer; 89,000 LF force main; 10 pump stations; chemical and

**CLIENT:**

Cumberland County

**CONTACT:**

Ms. Vivian Giles  
County Administrator  
804.492.3800

biological odor control facilities; and collection system improvements that collect wastewater for delivery to Town of Farmville for treatment.

**Route 60 Waterline Extension:** providing construction administration services for the installation of approximately 8,800 LF of 12" waterline, 550 LF of 10" waterline, and 1,250 LF of 8" waterline, including three jack and bore operations, and the relocation of 1,250 LF of 8" sewer forcemain by directional drilling.



# Water and Sewer System Evaluation and Improvements

Colonial Beach, Virginia

Dewberry assists the Town of Colonial Beach with evaluation, survey, design, and construction services for water and wastewater system improvements.

**Comprehensive Water System Model And PER:** Dewberry developed a preliminary engineering report (PER) to evaluate and model the Town's waterlines and storage capacity and determine the adequacy of the system to meet current and future needs. The hydraulic model analysis identified areas that required upgrades, allowing Dewberry to generate a list of capital improvements to meet immediate and future needs.

**Monroe Bay and 3rd Street Waterline Replacement:** Dewberry provided design and construction services for the replacement of existing ¾-inch diameter waterline with 7,200 LF of 8 inch waterline through existing neighborhoods. Information from the comprehensive water system PER was utilized to size required improvements for the project. Project activities included surveying, design, and local permitting for construction approvals.

**9th Street - Beach Avenue Waterline Replacement:** Dewberry provided design and construction services for the replacement of existing waterline with 3,130 LF of 8-inch waterline through existing neighborhoods

**Sewer System Evaluation and Rehabilitation Improvements:** Dewberry continues to assist the Town with evaluation, design, and construction administration services for sanitary sewer system improvements. Dewberry has completed two phases of rehab and replacement of deteriorating gravity sewer, and repair and replacement of sewage pump stations.

The Phase III project included rehab and replacement of over 4 miles of gravity sewer. Since much of the Town's existing waterline is located above the existing sewer, approximately 4,000 LF of existing waterline ranging from 2 inch to 8 inch diameter was be relocated to allow the sewer project to proceed. USDA- Rural Development was the funding source for the sewer improvements. Dewberry

**CLIENT:**

Town of Colonial Beach

**CONTACT:**

Mr. Rob Murphy  
Director of Public Works  
804.224.7260

submitted sufficient data to USDA-RD to obtain approval for additional funding for the waterline relocation.

**Robin Grove Water Storage Tank and Booster Station Upgrades:**

Dewberry is assisting the Town with water system improvements and is currently providing survey, design, and construction administration services for upsizing approximately 5,600 LF of existing small diameter waterlines throughout the Town to improve system pressure and fire protection, as well as complete improvements at the Robin Grove Facility water booster station to replace two underground reservoirs with an above ground storage tank.



# Fauquier County Water and Sanitation Authority Water/Wastewater Engineering

Fauquier, VA

Fauquier County Water and Sanitation Authority (FCWSA) owns and operates nine public water systems in the areas of New Baltimore, Bealeton, Catlett, Marshall, Paris, Turnbull, The Plains, Opal and Remington, Virginia, serving a total of about 9,350 customer accounts. The Service Authority also owns and operates three public sewer systems serving a combined total of about 8,500 customer accounts.

Dewberry has been selected for multiple terms of our annual service contract by FCWSA over the past eight years under basic ordering agreements for engineering consulting services. Some of the tasks completed by Dewberry are as follows:

### Bealeton Water Treatment

**Plant:** Dewberry prepared a detailed preliminary engineering report and design drawings and specifications for a 2 MGD water treatment plant (WTP) for existing wells in Bealeton subject to potential surface water contamination to meet the long term water quality needs of the community. The design includes a new treatment

building sized for 4 membrane units, a laboratory, chemical feed equipment, flow metering, a clearwell, a finished water pump station, site work, instrumentation and controls. The WTP also includes provisions for arsenic removal and future reverse osmosis. Dewberry also designed the existing Bealeton 0.5 MG Elevated Tank at the proposed WTP site.

### Marshall Water Line

**Replacement:** The Marshall Water System Improvements included a hydraulic analysis, field surveying, easement plats, and the design of approximately 8,000 feet of 12 inch water main constructed along Main Street and Winchester Rd. in Marshall, VA. Dewberry prepared a preliminary engineering report including a WaterCAD hydraulic analysis of the water system including a new storage tank. The design included reconnecting existing service connections to the new water main. Dewberry obtained necessary design approvals from Virginia Department of Health, VDOT, and Fauquier County. The project was

**CLIENT:**  
Fauquier County Water and Sanitation Authority

**CONTACT:**  
Cheryl St. Amant  
Deputy Executive Director  
540.349.2092

completed on time within budget.

**Turnbull Well.** The Virginia Department of Health notified the FCWSA that the Turnbull Well is determined to be groundwater under the direct influence of surface water (GUDI). Dewberry worked with FCWSA and VDH officials and submitted a study report recommending alternatives to correct the problem including filtration. In accordance with the report recommendations the existing well casing was reworked to eliminate the source of contamination. Dewberry also designed the existing Turnbull Elevated Water Storage Tank.

### Opal Water System Study:

Dewberry prepared a detailed study for a new FCWSA public water

system serving the village of Opal in accordance with the Fauquier County comprehensive plan. The water system will include new wells, a water storage tank and several thousand feet of water distribution piping. A hydraulic analysis of the water distribution system was prepared.

**New Baltimore Water System Improvements:** Dewberry prepared plans and specifications for three new wells with pumping equipment and several thousand feet of new raw water transmission piping. Dewberry provided surveying, easement plats, wetlands permitting, and is in the process of obtaining County and VDH approval. The new G3R well was quickly designed and approved by VDH under emergency conditions to meet immediate demands.

**Vint Hill Water System Capital Deficiency Study:** Dewberry prepared a detailed study of the existing Vint Hill Water System to identify necessary improvements and to estimate anticipated costs to FCWSA if they take over ownership of the Vint Hill Water System.

**Marsh Run Wastewater Pump Station:** Dewberry designed a new 440 gpm Marsh Run Wastewater Pump Station with standby generator.

**FCWSA Water and Wastewater Master Plan:** Dewberry prepared a master plan report for the entire FCWSA service area including projected flows, recommended long range improvements, and costs. Dewberry also a Water Reservoir Study identifying and evaluating potential surface water reservoir sites throughout the County and required transmission main piping to service districts.

**Catlett and Calverton Wastewater Collection Study:** The Catlett and Calverton areas have failing septic tank drainfields. Dewberry prepared a detailed study describing how gravity sanitary sewer collection system piping and pump stations could be installed in these areas including detailed sewer system preliminary drawings and cost estimates.

**Rogues Road Water Supply System:** Dewberry prepared a detailed operation and maintenance manual for the newly constructed FCWSA Rogues Water Supply System for submission to the Virginia Dept. of Health. The water system included drilled wells, water treatment, a storage tank and booster pumps.

# J. Effective Cost Control

*Offeror's Project and Management Approach:*

## COST CONTROL METHODOLOGY

Cost control is a major emphasis of our project management system. Dewberry recognizes that Fluvanna County does not have unlimited resources to execute each task order for the water and sewer system improvements for the Zion Crossroads area. We understand the constraints of capital budgets and operating costs, and we practice design to-cost on every job. Our overall project management approach is participatory but directed toward consensus and action. To adhere to the client's objectives, all phases of the project are executed through a highly interactive process of team meetings to discuss evaluation, design, schedule, and budget issues, detailed task plans, and coordination among disciplines-with very detailed documentation of decisions made.

For each project with Fluvanna County, our team **will apply diligent cost control strategies and procedures within our management plan.** The management plan will establish up front budget and cost constraints of each individual project task. A cost loaded project schedule will be prepared, and will include resource requirements for each task, including labor hours by staff category, labor costs, and other direct costs.

We will consistently update you on the progress of our task orders in terms of cost control and schedule compliance, and will work diligently to meet your tight budgets and critical schedule submittal dates. This system of tracking and reporting works.

## Dewberry Cost Control Experience

Representative Projects	Design Fee		Construction Cost	
	Budget	Actual	Budget	Actual
Cedar Lane-Winns Church Road-Route 33 Waterline and Grassy Swamp Wastewater Pump Station, Forcemain, and Gravity Sewer	\$545,000	\$538,000	\$2,100,000	\$1,769,000
Hanover County Atlee Manor Sewerage System Improvements	\$235,459	\$235,459	\$1,545,000	\$1,384,700
Henrico County Eastern County Force Main Design	\$336,000	\$336,000	\$21,000,000	\$20,100,000
Stony Run Interceptor, Phase 6	\$80,010	\$80,010	\$1,218,250	\$1,127,995

By breaking this project down into a task order approach, we will be able to provide the County with expedient, cost effective design services. To capture the most value out of every dollar spent, Dewberry will not charge a mark-up on services provided by our teaming partners. Like you, **we want to maximize every dollar spent towards project designs.**

Equally important as cost control of the design effort, is furnishing accurate construction cost estimates so capital budgets or project scope can be modified. Dewberry prepares construction cost estimates by soliciting current pricing information from material vendors and monitoring the local contracting climate. This enables us to furnish clients with accurate estimates so there are no surprises on bid day.

Our most recently bid project, for the Louisa Regional WWTP Septage Receiving and Chemical Facility, is representative of the way we estimate projects. A summary of our estimate and the bids received on June 25, 2015 is shown below.

Louisa Regional WWTP Septage Receiving and Chemical Feed Facility - Bids Received 6/25/15 Louisa County, VA	
Dewberry Engineer's Estimate	\$1,358,000
Contractor Bid #1	\$1,199,500
Contractor Bid #2	\$1,283,000
Contractor Bid #3	\$1,372,000
Contractor Bid #4	\$1,372,900
Contractor Bid #5	\$1,396,000
Contractor Bid #6	\$1,694,005
Contractor Bid #7	\$1,824,400

The table below provides the County with a sampling of projects we have performed within the last few years demonstrating our ability to design and bid projects within budgets.

# APPROACH FOR REDUCING PROJECT COSTS

Based on our experience, the best way to reduce project costs is to minimize change orders during construction. We at Dewberry are experts at minimizing change orders through our focus on making sure that every last item is detailed and design mistakes are minimized. This is accomplished through peer review at various stages in the design as well as constructability reviews towards the end of a design with a contractor. Our emphasis on paying attention to details has allowed us to maintain an excellent track record of keeping

change orders to a minimum. The table below shows some of our more recent large projects in which we have demonstrated our excellence at minimizing change orders.

It is also important to understand the limitations of the project budget and to develop designs that fit within the budget. We accomplish this by maintaining close communication throughout the project with our clients and communicate when a client request is expected to increase construction cost. We also update project budget estimates at each phase in the design to ensure that the project stays within budget.

## Demonstrated Ability To Reduce Project Costs

Project Name	Contract Completion Date	Original Construction Contract Amount	Total Change Order Amount	Total Change Order Percentage	Project Contact
Doswell WWTP Ultraviolet Disinfection System	May 2015	\$292,988.00	\$0	0%	David Van Gelder Hanover County DPU, 804-365-6235
Zion Crossroads Effluent and Reuse Pump Stations	July 2015	\$1,065,139.00	\$8,475	0.8%	Wesley Basore Louisa County Water Authority 540.8943807
Emporia Water Treatment Plant Improvements	August 2015	\$9,329,815.00	\$83,073.82	0.9%	Tom Delbridge City of Emporia 434.594.4068

# DOCUMENTATION, TRACKING AND REPORTING SYSTEM

To successfully manage each task, and to maintain our high rate of repeat clients, we develop a “Project Execution Plan” (PEP) to ensure quality, schedule, and cost metrics are met. Our goal is to achieve a quality job on schedule and within budget.

We will also prepare a Monthly Status report to discuss with you every month to ensure that we are providing timely, quality service on all project tasks. An example of a monthly status report is provided below.

## Project Execution Plan (PEP)

The PEP serves two primary purposes:

- it facilitates and records the critical early decisions a task manager should make to effectively initiate and manage the project
- it communicates the requirements of the project to the project team

Critical to the PEP are strong lines of consistent communication with the client, project team members, and subcontractors. We strongly believe quality, schedules, and cost controls are top priorities for every project.

Hanover County Department of Public Utilities Hanover County, Virginia		Dewberry		Monthly Status Report: July 2007		The Record Engineering Services and Civil Infrastructure Plan Projects		Construction Project Information		Current Activity and Action Items	
Project Name	Total Budget	Amount Encumbered	Amount Received	Start Date	% Complete (per Contract)	Construction Project Information	Current Activity and Action Items				
Alma Manor Sewerage Treatment HCDPU P.O. # 9817 HCDPU Manager: D. Galt Dewberry Manager: D. Maxwell/ S. Schaff	\$205,489.00	\$204,880.00	\$100,780.00	1/20/2006	53%	Cont. Phase B. Chenuff, Inc. Dig. Cont. Job. \$1,219,700. P/O to Date. \$0. CCA to Date. \$0. NTR. 7/20/07. Sub. Comp. 4/2/08. Plan. Comp. 2/25/08. VDRP No. DCRP-01-124922. VDRP Expiration Date. 4/30/08.	The pre-construction meeting was held on 7/12 at the Bruce Center. Meeting minutes from the pre-construction meeting were distributed on 7/13. Purchase Order No. 10081 was issued to the contractor on 7/13. Notice to proceed is 7/20/07. Contractual substantial completion is 4/30/08, and contractual final completion is 2/28/09. On 7/16, Dewberry received Change Order No. 3 to Purchase Order No. 9817 to provide full time construction inspection services for the project. Dewberry received submittals from Chenuff on 7/16, and returned revised submittals on 7/24. Letter updating Alma Manor residents on the status and schedule for the project was sent by DPU on 7/17. Contractor is expected to begin mobilizing on site on 7/20.				
DWWTWP Laboratory Upgrade Design HCDPU P.O. 10604 HCDPU Manager: D. Van Gelder/ Dewberry Manager: D. Maxwell/ S. Schaff	\$22,056.00	\$7,063.90	\$7,063.00	3/15/2007	32%	na	Dewberry submitted 80% plans on 7/27. Meeting to review electrical issues coordinated with the DWWTWP engineer for the State Fair Complex is being scheduled for August.				
Tankar House Well Facilities Design HCDPU P.O. 10584 HCDPU Manager: D. Butler/ Dewberry Manager: D. Maxwell/ S. Schaff	\$26,811.00	\$10,227.00	\$10,222.00	3/13/2007	38%	na	Dewberry is reviewing the plan set to address comments received from DPU and Facilities Management, and will submit draft plans and specifications for review by Facilities Management (with copy to DPU) by 8/10.				
School Street Wastewater Upgrade HCDPU P.O. 9582 HCDPU Manager: M. Hannon/ Dewberry Manager: D. Maxwell/ S. Schaff	\$15,947.00	\$1,777.55	\$2,300.00	4/13/2007	61%	na	Dewberry submitted 90% draft plans and specifications to DPU for review on 7/2. Meeting to review draft submission was held on 7/27 at 9:30.				
Warm Other Wastewater Upgrade HCDPU P.O. 9582 HCDPU Manager: D. Maxwell/ S. Schaff	\$10,858.00	\$5,281.05	\$1,243.80	4/13/2007	50%	na	Dewberry submitted 90% draft plans and specifications to DPU for review on 7/2. Meeting to review draft submission was held on 7/27 at 8:30. Dewberry sent an e-mail to Mike Hannon on 7/22 describing our current state of research related to property and easement issues within the corridor for discussion during our 7/27 meeting.				
Hanover Village to Brandy Creek Dens Installation Upgrade HCDPU P.O. 10604 HCDPU Manager: M. Hannon/ Dewberry Manager: D. Maxwell/ S. Schaff	\$1,2387.00	\$3,871.50	\$1,588.60	4/13/2007	32%	na	On 7/2, Dewberry received information from DPU regarding the locations of the existing easements and installed existing easement information with DPU. Dewberry is completing some additional survey in the area to confirm the existing proposed corridor during the week of 7/26. Dewberry will submit draft plans and specifications for the corridor by 8/10.				
Staubler's Creek Pump Station Cost Estimate Evaluation HCDPU P.O. 10601 HCDPU Manager: D. Butler/ Dewberry Manager: D. Maxwell/ S. Schaff	\$2,518.50	\$2,518.00	\$2,516.00	4/30/2007	100%	na	All project activities are complete, and this project will be removed from the list next month.				

## PROGRAM FOR QUALITY CONTROL

We promote project expediency and minimize problems through a thorough Quality Assurance/Quality Control (QA/QC) process. As a standard practice, Quality Management Plans will be developed for every project. These plans feature the “Plan-Do-Check-Act” Cycle to manage quality (illustrated below).

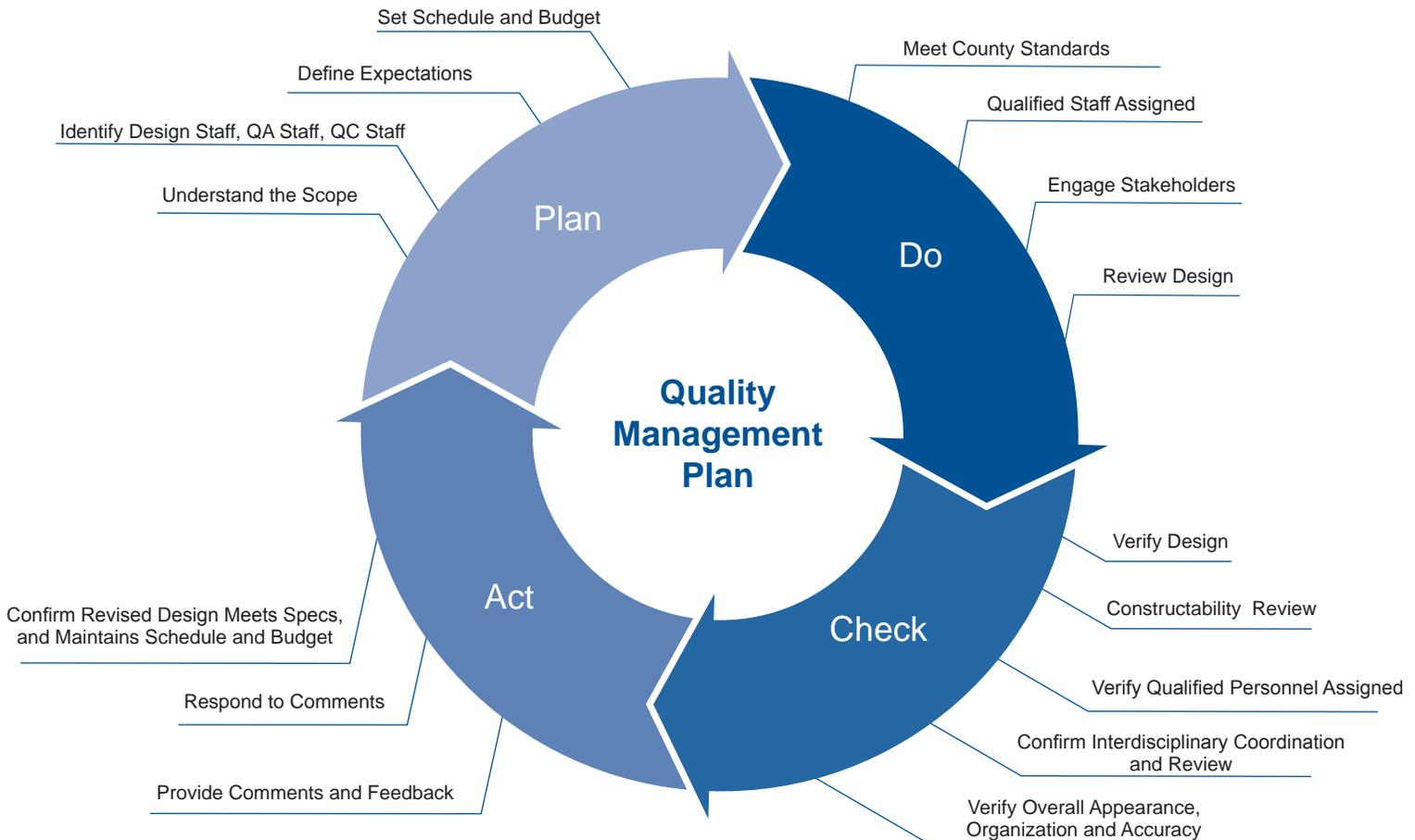
We integrate Quality Assurance into the development of the project through the study, design, and production process rather than applied as a separate system. As an integral program, the intent is to avoid poor decisions or errors rather than find and correct mistakes and problems: “backtracking” to correct errors or omission can negatively impact the schedule.

### QA/QC PROCESS BENEFIT FOR FLUVANNA COUNTY

- Faster/Cost-Effective Solutions
- Proven Ability to Stay on Schedule
- Constant Communication with Fluvanna to remain on budget

Our internal Quality Assurance and Quality Program begins immediately after Notice-to-Proceed and consists of the following elements:

- Multi-discipline technical input and design coordination through structured project team meetings including all assigned subconsultant personnel.
- Structured review at completion of 35% design, 65% and 100% stages for adherence to criteria, suitability of material and system selection.
- Coordination of engineering design and construction phasing, and evaluation of cost estimates and project budget.
- Periodic peer review during design development for suitability, accuracy, and completeness.
- A final review by senior quality control staff for technical accuracy, and interdisciplinary coordination.



# K. References

*Provide the current name, address, and telephone number of at least five (5) references the Offeror has served either currently or in the past three (3) years; preferably those where one or more of the project team members provided the same or similar services as requested herein. Indicate the Scope of Services provided to each reference.*

We invite you to contact our references for term contracts and other water/wastewater engineering and design projects (listed below), who can attest to the quality and level of service that the Dewberry team provides. Our long-term clients provide the proof that we deliver.

### Hanover County Department of Public Utilities

Mr. Gary Craft  
Deputy Director  
804.365.6236  
Services Provided: Full range of water/wastewater services

### City of Emporia

Mr. Linwood Pope  
Director of Public Utilities  
434.634.4500  
Services Provided: Full range of water/wastewater services

### Louisa County Water Authority

Ms. Pam Baughman  
General Manager  
540.967.1122  
Services Provided: Full range of water/wastewater services

### Town of Colonial Beach

Mr. Rob Murphy  
Director of Public Works  
804.224.7260  
Services Provided: Full range of water/wastewater services

### Goochland County

Mr. Todd Kilduff  
Director of Public Utilities  
804.556.5835  
Services Provided: Full range of water/wastewater services

Client Testimonials	
Mr. Steve Herzog Director Hanover County DPU	<i>"A lot of firms say they want to be an extension of your staff, but Dewberry is that consultant."</i>
Mr. Todd Kilduff, PE Director of Public Utilities Goochland County	<i>"Dewberry's effort on Goochland's Utility Master Plan... has been great. You guys have been very resilient to our needs."</i>
Ms. Pam Baughman Deputy General Manager Louisa County Water Authority	<i>"Dewberry has been Louisa County's primary engineering firm since the early 1990's. The reasons for their longevity of service can be explained as follows: 1. They understand utility related work 2. They make professional presentations to the public explaining the project scope 3. They are flexible and open minded to owner suggestions during plan development and execution 4. They do not charge additional fees for minor changes 5. They are very responsive to owner's requests for information 6. They provide good, sound engineering advice and reasoning on projects."</i>
Mr. Tom Delbridge Water Plant Superintendent City of Emporia	<i>"Dewberry has provided excellent technical expertise, Dewberry has maintained good communication throughout the project, and Dewberry has been responsive to owner requests and questions. I would highly recommend Dewberry."</i>
Ms. Cheryl Gomez Director of Energy and Utilities University of Virginia	<i>"UVA and Dewberry...came together as a team and accomplished an unbelievably high quality, fast track project under some very difficult conditions. This was an exceptionally well executed project"</i>
Ms. Marchelle Sossong Project Manager Henrico County DPU	<i>"Dewberry was responsive to the changing requirements for the Elko Trunk Sewer project during the design and construction .... resulting in construction on the project that went very well."</i>
Mr. Carson Tucker BOS Chairman Powhatan County	<i>"I just wanted to take a moment to express to you how impressed I was at the level of professionalism exhibited by your staff and Dewberry in its presentation to the Board. I know we put a lot of pressure on you to "hurry up," and I'm glad you insisted on taking the time to do it right. Not only was it clear the team did its study thoroughly, it was captured and presented such that there were few if any questions. This is a sign of well-thought-through work."</i>

# Conclusion

By selecting Dewberry, Fluvanna County receives the following benefits:

**Project Manager with Expertise in Managing Multiple, Concurrent Water/Wastewater Task Orders.** With this multi-phased project Fluvanna County requires a Project Manager who has proven that they can manage multiple task orders. Your Project Manager Dan Villhauer brings this expertise through his experience in managing annual water/wastewater contracts for multiple municipalities throughout Virginia.

**Proven Water and Sewer System Design Experience and Understanding of the Zion Crossroads Service Area.** Dewberry has assembled a team that has expertise in planning, design, and construction administration for the exact same type of projects for your neighboring municipalities. In fact, we have provided these same services to the Zion Crossroads Service Area for Louisa County. We will deliver that same successful expertise to Fluvanna County for this project.

**Strong Relationship With Your Leadership.** With Jeff Chapin leading the QA/QC of every task order, our team understands the expectations and preferences of your contract lead Wayne Stephens. With this knowledge, our team will be able to effectively execute each task order with Fluvanna County by being able to think ahead and address project issues proactively.

**Fresh Set of Eyes with a New Perspective.** As we have detailed within our project approach, we are ready to work with Fluvanna County in looking at all options for the County that will lead to successful long term solutions for future growth within the area. **We are excited about this project and ready to get started!**

## WHY SHOULD FLUVANNA COUNTY SELECT DEWBERRY FOR THIS PROJECT?

- Extensive multiple task order experience
- Water/wastewater expertise on a wide variety of projects
- Understanding of the project area and adjacent municipalities
- Fresh set of eyes to provide innovative solutions
- A proven team that has worked together on similar past projects
- A proven, local, experienced project manager
- We are excited to serve as your trusted partner on this project and as your engineer in the future



Dewberry Engineers Inc. | 804.290.7957  
4805 Lake Brook Drive, Suite 200 | 804.290.7928 fax  
Glen Allen, VA 23060 | www.dewberry.com

October 5, 2015 - REVISED

Mr. Eric M. Dahl  
Director of Finance  
County of Fluvanna  
132 Main Street  
Palmyra, Virginia 22963

**VIA E-MAIL**

**RE: Zion Crossroads Water & Sewer System Design Services  
RFP # 2015-03  
REVISED Engineering Scope of Work and Fee Proposal**

Dear Mr. Dahl:

Dewberry Engineers Inc. (Dewberry) is pleased to submit our REVISED proposal, per your request, to provide professional engineering services for engineering, design, and construction services required for the Zion Crossroads Water and Sewer System project. Dewberry's Project Understanding, Scope of Services, and Fee have been developed based on our scoping meeting with you, Wayne Stephens, and Bobby Popowicz on August 31, 2015. Our proposal has been revised based on our meetings on September 24, 2015 and October 2, 2015. The Work will be performed in accordance with RFP # 2015-03 for Zion Crossroads Water and Sewer System Design Services, including the attached General Terms, Conditions, and Instructions to Bidders and Contractors, and Dewberry's proposal response dated July 9, 2015.

### **PROJECT UNDERSTANDING**

Dewberry understands that Fluvanna County (OWNER) is seeking to design and construct a water and sewer system in the Zion Crossroads area of the County, generally south and west of the intersection between Route 250 and Route 15. In March 2015, Rummel, Klepper & Kahl, LLP (RK&K) completed a Preliminary Engineering Report (PER) for Water and Wastewater Services to the Zion Crossroads Planning Area, which outlined recommendations to proceed with Phase 1 of the Water and Sewer systems in the area.

Based on discussions at our August 31 scoping meeting, Fluvanna County has asked Dewberry to develop this proposal for engineering, design, and construction services associated with Phase 1. This will include the water and sewer system components that are listed below and highlighted on Attachment B (Water) and Attachment C (Sewer).

#### Water System Components in Phase 1

1. Approximately 21,000 linear feet (LF) of 12" water main along Route 250 and Route 15, to connect to the existing water system at the Fluvanna Correctional Center for Women, which is operated by the Virginia Department of Corrections (DOC), and dead ends at the end of Service Area 1-D. A connection to the Louisa County water system at Zion Crossroads will also be provided along this route. It is anticipated that the connection to Louisa County will consist of a vault housing a meter and control valve and be integrated into the SCADA system.
2. One (1) 500,000 gallon elevated water storage tank at a location to be determined near the intersection of Route 250 and Route 15.

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3. One (1) water booster station at a location to be determined to deliver water from the DOC water system to the new Zion Crossroads water system and elevated tank.

#### Sewer System Components in Phase 1

1. Approximately 23,000 linear feet (LF) of 10" sewer force main along Route 250 and Route 15, from the end of Service Area 1-D to the Wastewater Treatment Plant (WWTP) at the DOC Fluvanna Correctional Center for Women.
2. One (1) duplex submersible sewage pump station at a location to be determined near the intersection of Route 250 and Route 15 to pump sewage back to the DOC WWTP.

It should be noted that the components of the Phase 1 sewer system were only vaguely outlined in the PER, but based on our scoping meeting discussions with the County, for the purposes of this proposal we have assumed that the scope for design services will include only one (1) pump station, force main from the pump station to the DOC WWTP, and no gravity sewer.

Based on discussions at our August 31 scoping meeting, Dewberry is preparing this proposal in a "menu-style" format in order to keep costs within the limits for individual project tasks outlined in RFP #2015-03.

Separate "menu item" projects that are part of this proposal are as follows:

1. PER Validation
2. Geotechnical Engineering for Water and Sewer Lines
3. Environmental Investigation and Permitting Services – Entire Project
4. Utility Designation along Route 250 and at the Women's Prison
5. Water and Sewer Lines – Preliminary Design (through 65%)
6. Water and Sewer Lines – Final Design
7. Water and Sewer Lines – Bidding Services
8. Elevated Water Storage Tank – Design
9. Elevated Water Storage Tank – Bidding Services
10. Water Booster Station – Design
11. Water Booster Station – Bidding Services
12. Sewage Pump Station – Design
13. Sewage Pump Station – Bidding Services
  
14. Water and Sewer Lines – Construction Administration
15. Elevated Water Storage Tank – Construction Administration
16. Water Booster Station – Construction Administration
17. Sewage Pump Station – Construction Administration
  
18. Water and Sewer Lines – Construction Inspection
19. Elevated Water Storage Tank – Construction Inspection
20. Water Booster Station – Construction Inspection
21. Sewage Pump Station – Construction Inspection

For each of the design system components, deliverables will be as follows:

- 10% Schematic Design

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- 35% Preliminary Design
- 65% Working Drawings
- 95% Draft Final Documents
- Final Submission – Ready for Bid

At each stage beyond 10% schematics, Dewberry will update budgetary cost estimates and meet with County staff to review the submission and address comments.

One (1) presentation will be provided to update the Board of Supervisors on the entire project at the 65% design stage and one (1) presentation will be provided to update the BOS on the entire project at the final design stage. Separate presentations for each project component will not be provided.

Based on discussions at our September 24 meeting, Dewberry understands that there will be three (3) bid and construction packages for the project, broken out as follows:

1. Water and Sewer Lines
2. Elevated Water Storage Tank
3. Pump Stations – Water Booster Station and Sewage Pump Station

In this revised fee proposal, Dewberry has accounted for cost savings in the design, bidding, construction administration, and construction inspection phases of the project where services overlap based on this packaging. Should the County decide to modify the construction packages during design, Dewberry and the County will need to renegotiate fees based on the modified construction packaging.

Also based on discussions at our September 24 meeting, Dewberry understands that surveying services, including preparation of easement plats, will be performed by others outside of the scope of this contract. Dewberry will be relying on the survey information provided by others for the design, and will not be responsible for the accuracy of the survey information provided by others.

## **SCOPE OF SERVICES**

### **ENGINEERING, DESIGN, AND BIDDING**

#### **1. Preliminary Engineering Report (PER) Validation**

- 1.1 Hold a kickoff meeting with Fluvanna County (OWNER) to review project requirements. Key issues to resolve during the PER validation phase are locations and sizing for site-specific facilities (water storage tank, water booster station, and sewage pump station), and routing alignment and sizing (diameter) for water and sewer pipelines.
- 1.2 Review the project PER (RK&K, March 2015) to review routing alignment and sizing alternatives.
- 1.3 Collect and review available existing information relative to existing utilities and environmental issues within the project corridors.
- 1.4 Conduct preliminary property research to assess requirements for any easements and meet

with the OWNER to review preliminary easement requirements.

- 1.5 Identify potential issues associated with each routing and siting alternative, including easement acquisition requirements, utility impacts, power line corridor impacts, wetland impacts, creek/stream crossings, and road impacts, including traffic control.
- 1.6 Conduct a field walkthrough with the OWNER to review potential issues associated with each pipeline routing and station siting alternative.
- 1.7 Work with OWNER to review pipeline routing and station siting alternatives and select recommended alternatives for use in discussions with review agencies.
- 1.8 Coordinate with Dominion Virginia Power and review requirements related to the crossing of any distribution line easements along the proposed pipeline routing.
- 1.9 Meet with Virginia Department of Transportation (VDOT) to discuss routing alternatives and discuss issues associated with construction impacts, road restoration, traffic control, and lane closures along Route 250 and Route 15.
- 1.10 Coordinate with appropriate agencies for any natural gas, fiber optic, and telephone line crossings or impacts along the proposed routing.
- 1.11 Develop water and sewer models of proposed systems for use in preliminary sizing of the water main, booster station, water storage tank, sewage pump station, and force main.
- 1.12 Develop updated budgetary construction cost estimates for each item.
- 1.13 Prepare and submit a PER Validation Memorandum that confirms the preliminary design features associated with the proposed sizing, siting, and routing. The memorandum will summarize options, provide evaluation findings, and make recommendations to carry forth through field investigations and design services.
- 1.14 Meet with the OWNER to review the draft PER Validation Memorandum.
- 1.15 Revise the PER Validation Memorandum as necessary to address OWNER comments and submit the final memorandum.

Note that the remaining phases in the scope of basic services (listed below) will be completed only for the routing and siting alternatives that are selected as a result of the PER Validation.

## **2. Geotechnical Engineering for Water and Sewer Lines**

- 2.1 Geotechnical Engineering Services will be provided by our sub-consultant Schnabel Engineering Associates in accordance with their proposal dated September 28, 2015, which is included as Attachment D to this proposal.

- 2.2 For the water and sewer lines, Schnabel anticipates a total of 52 test borings along the alignment to depths of approximately 10 to 20 feet, drilled on a roughly 500 foot spacing. Total drilling depth is approximately 730 linear feet (LF). It is assumed boring locations will be accessible with truck and ATV-mounted equipment. Traffic control will be provided for maintenance of traffic during boring operations.
- 2.3 Prepare a comprehensive geotechnical engineering report based on the results of field investigations. The geotechnical report will provide recommendations for pipe bedding support, earthwork, rock excavation, and dewatering.
- 2.4 The findings and recommendations detailed in the geotechnical report will be addressed during the design phase.
- 2.5 Additional details on Schnabel's scope of services for the water and sewer lines are provided in Attachment D.

### **3. Environmental Investigation and Permitting Services – Entire Project**

Note that the permitting agencies take into consideration the cumulative impacts to wetlands and streams for all aspects of the proposed project, and the US Army Corps of Engineers (USACE) requires the permit application to comprise all aspects of the project necessary to make it a single complete project. Therefore, to help expedite the permitting process, Dewberry recommends that the individual components of the Zion Crossroads water and sewer project be permitted together in one (1) permit application, regardless of the number of components that are approved for design initially. The scope of services and fee for this task, therefore, incorporates the environmental investigation and permitting services for all project components.

- 3.1 Dewberry will perform a wetland and stream delineation in accordance with the methods listed in the 1987 U.S. Army Corps of Engineers (USACE) Wetland Delineation Manual and the appropriate Regional Supplement to the Corps of Engineers Wetland Delineation Manual. Dewberry will conduct wetland and stream delineations/determinations for a 100' wide corridor along the water and sewer alignment routing generally paralleling Route 250 and Route 15 in Fluvanna County, and the selected sites for the elevated water storage tank, water booster station, and sewage pump station.
- 3.2 Field indicators of hydrophytic vegetation, hydric soils, and wetland hydrology will be observed and recorded to generally determine the approximate wetland boundaries. Boundaries of jurisdictional wetlands and streams will be flagged with survey tape and pin flags. Data points will be taken at appropriate wetland areas using approved USACE data forms to characterize the type of wetland community found. Dewberry will also record the general composition of vegetation identified onsite.
- 3.3 Field survey of flagging for the wetland and stream locations identified during delineation will be provided by others and is not part of this proposal.
- 3.4 The data gathered during the wetland and stream delineation will be used to prepare a Waters of the US (WOUS) Delineation Report. The report will include information

- summarized from the wetland/stream investigation (including wetland data sheets, required jurisdictional determination forms, and site photographs). It will also include map exhibits displaying jurisdictional boundaries.
- 3.5 After the WOUS Delineation Report has been reviewed and approved by the OWNER, it will be forwarded to the US Army Corps of Engineers (USACE) – Western Richmond Field Office with a request for jurisdictional determination (JD) verification. This task assumes one on-site meeting for the JD with the Corps of Engineers.
  - 3.6 A preliminary review of threatened and endangered species databases identifies only the federally endangered Northern Long Eared Bat (NLEB) as potentially affected by the Zion Crossroads Water and Sewer project. Dewberry will complete a database review and submit an online request for a US Fish & Wildlife (USFWS) IPaC (Information, Planning, and Conservation) review of the project area, including the completion of a desktop species conclusion table based on site information gathered during field work. Based on USFWS guidance, a NLEB habitat assessment will be completed on the project including pre- and post-construction vegetation cover types and acreage, water sources, description of adjacent properties, and proximity to public lands. This will assist with the identification of any further surveys necessary and will assist with permitting time frames. Due to the overall scale of the project, tree clearing will likely require a time-of-year restriction for clearing from April 15<sup>th</sup> to September 1<sup>st</sup>, unless a negative bat survey is conducted or the database information is updated to remove the bat from the project vicinity list.
  - 3.7 Dewberry will complete and submit a Project Review request to the DCR Division of Natural Heritage to determine the potential or likely presence of rare, threatened or endangered species within the project area. Dewberry will also complete a search of the VA Department of Game and Inland Fisheries (DGIF) database to determine any documented occurrences of State Listed species within the project area. This will provide information about federally protected sensitive resources within the vicinity of the project.
  - 3.8 Depending on the total project impacts, Dewberry will compile and submit a Pre-Construction Notification (PCN) or Joint Permit Application (JPA) permit package for the U.S. Army Corps of Engineers. The application will include general information about the applicant, the amounts and types of waters and wetlands proposed to be impacted, and any alternatives analysis detailing the avoidance and minimization efforts made. The application will include graphics detailing the proposed project and unavoidable impacts. Dewberry will analyze the wetland areas to be affected by the proposed plan, summarize the results in both narrative and tabular formats and submit the application package to the Corps. A JPA permit package is assumed.
  - 3.9 It should be noted that although this project most likely qualifies for a Nationwide Permit or State Programmatic General Permit (SPGP), compensatory mitigation will be required for permanent stream impacts that exceed 300 linear feet (LF) and/or permanent wetland impacts or forested wetland conversion impacts, which cumulatively exceed 1/10th of an acre. Banking coordination activities and preparation of a package for compensatory mitigation are included. Dewberry will contact banks, evaluate pricing, and provide recommendations. OWNER will purchase mitigation credits directly with selected bank.

#### **4. Utility Designation along Route 250 and at the Women’s Prison**

Dewberry understands that during our scoping meeting with the County on August 31, 2015, it was noted that utility designation should be performed by utilizing Miss Utility design tickets along the corridor. Along Route 15, there appear to be minimal utilities, and this solution should work well through this section of the proposed pipelines. However, during our review of project area along Route 250, we noted multiple fiber optic and telephone lines throughout the corridor. Based on preliminary investigations performed by our subconsultant, Accumark, we estimate 5 to 7 active communication lines (fiber optic and telephone) and a high probability of abandoned telephone lines throughout this corridor. Miss Utility will not mark abandoned lines, will not mark utilities at the women’s prison facility, and will not be liable for the accuracy of information provided through design tickets. In addition, accurate utility information will minimize the potential for construction change orders and time delays. For these reasons, and due to the concentration of communication utilities along the corridor, the County may want to consider having our subconsultant, Accumark, perform utility designation services along the Route 250 corridor and at the women’s prison under this contract. The scope of services for these utility designation services is provided below.

- 4.1 Underground utility designations along Route 250, at the Route 250/Route 15 intersection, and at the Women’s Prison facility will be provided by our subconsultant, Accumark, in accordance with their proposal dated September 28, 2015, which is included as Attachment E to this proposal.
- 4.2 Accumark will perform utility designation in compliance with Quality Level B. Known non-locatable utilities shall be added to the designation mapping at Quality Level C or D, as appropriate.
- 4.3 Accumark will field survey all utility markings along the utility designation corridor and develop a CAD file with all utility markings for incorporation into the design documents.

#### **5. Water and Sewer Lines – Preliminary Design (through 65%)**

- 5.1 Prepare a 10% schematic alignment for OWNER review. The 10% submission will include:
  - Overall plan view showing general horizontal alignment and impacted properties. This will be a “roll drawing” as opposed to individual plan sheets.
  - Preliminary layout of the Louisa connection vault
  - Sheet index showing conceptual layout of plan set
  - Preliminary construction cost estimate
- 5.2 Meet with the OWNER to review the 10% submission. Comments will be addressed in the 35% design stage.
- 5.3 Surveying will be performed by others outside of the scope of this contract. Coordinate with the surveyor regarding the survey information collected for the project. This task will include initial coordination to provide direction on the survey area and components to be surveyed, and will be an on-going task during the design phase as issues are identified and need to be resolved.

- 5.4 Prepare 35% design plans for OWNER review. The 35% plan submission will include:
- Plan sheets
    - Aerial and field topographic survey with control points
    - Horizontal pipeline alignment showing stationing
    - Utility designations and locations along proposed alignment
    - Floodplain and wetland areas delineated
    - Affected property owner information
    - Plan for the Louisa connection vault
  - Updated construction cost estimate
- 5.5 Meet with the OWNER to review the 35% submission.
- 5.6 Address comments on the 35% submission and document responses back to the OWNER.
- 5.7 Identify the boring locations for geotechnical investigation along the proposed routing. Perform geotechnical investigations and complete geotechnical engineering report per the Geotechnical Engineering section of this proposal.
- 5.8 Prepare 65% design plans and specifications for OWNER review. The horizontal alignment shall be finalized prior to 65% submission. The 65% submission will include:
- Cover sheet with location map, sheet index, project title, and material quantity list
  - General notes and legend sheet
  - Standard construction notes and details sheet
  - E&S control narrative, notes and details
  - Easement summary
  - Listing of anticipated details
  - Plan for the Louisa connection vault
  - Plan sheets showing 35% submission info and the following:
    - Horizontal pipeline alignment showing stationing, limits of disturbance, and proposed easements
    - Geotechnical boring locations
    - Vertical pipeline alignment (profile) based on horizontal alignment
  - Technical specifications
  - Updated construction cost estimate
- 5.9 Meet with the OWNER to review the 65% submission.
- 5.10 Address comments on the 65% submission and document responses back to the OWNER.
- 5.11 Provide a presentation to the Fluvanna County Board of Supervisors (BOS) on the 65% design. Note that this task will be a presentation to brief the BOS on the entire project, not just the water and sewer line portion. However, the entire fee for this task is included in the water

and sewer line fee. Separate briefings to the BOS for each separate project component will not be provided.

## 6. Water and Sewer Lines – Final Design

- 6.1 Prepare 95% design plans and specifications based on the preliminary design and applicable Federal, State, and Local regulations and requirements.
- 6.2 95% plans and specifications will address the following components.
  - 6.2.1 95% plans will be prepared on 24" x 36" sheets with a title block for recording the sheet title, approval and date, revisions and dates, and stamp and signature of the ENGINEER.
  - 6.2.2 Prepare a cover sheet indicating the project name, general location, stamp and signature of the ENGINEER, approval and signature of the OWNER, and general notes.
  - 6.2.3 Use a minimum vertical scale of 1" = 10' and a minimum horizontal scale of 1" = 50'.
  - 6.2.4 Indicate on the plan sheets all owners and parcel numbers of properties that are impacted and those of adjacent properties.
  - 6.2.5 Show water and sewer line improvements in plan and profile view, including the following:
    - 6.2.5.1 Pipe type, class, and diameter
    - 6.2.5.2 Utility crossings
    - 6.2.5.3 All appurtenances, including access structures, valves, tees, hydrants, blow-offs, air release valves, meter setting locations, and monitoring and control devices
    - 6.2.5.4 Construction and permanent easements
    - 6.2.5.5 Existing utilities and easements
    - 6.2.5.6 Match lines and station numbers for preceding and subsequent sheets
    - 6.2.5.7 Elevation of the 100-year flood plain and boundaries of the 100-year flood plain as shown on the FIRM or other available mapping, wetlands and other protected features, areas, and water courses as appropriate
    - 6.2.5.8 Original and finished ground elevations
    - 6.2.5.9 Benchmarks
    - 6.2.5.10 Erosion and sedimentation control measures
  - 6.2.6 Show, by notes, construction parameters and sequencing, erosion and sedimentation controls, and operational details and sequences.
  - 6.2.7 Develop a Project Manual using the OWNER's bid format to contain contract and bidding documents as well as technical specifications for completing the construction.

- 6.3 Prepare permit applications to obtain review agency approvals from Fluvanna County, DCR, DEQ, VDH, and VDOT as necessary.
- 6.4 Since the project will disturb over 1 acre of land, a Virginia Stormwater Management Program (VSMP) general permit for construction sites will be required. This involves the filing of a VSMP registration statement, a pollution prevention plan, and a permit application fee. Dewberry proposes to complete and file the registration statement and create a Stormwater Pollution Prevention Plan (SWPPP) specifically for the project. The permit fee depends on the total amount of land disturbance and will be paid by the OWNER.
- 6.5 Coordinate with review agencies to address comments and obtain approvals.
- 6.6 Prepare final construction cost estimate.
- 6.7 Meet with the OWNER to review the 95% design plans and specifications.
- 6.8 Address comments on the 95% submission and document responses back to the OWNER.
- 6.9 Submit FINAL plans and specifications ready for bidding.
- 6.10 Provide a presentation to the Fluvanna County Board of Supervisors (BOS) on the FINAL design. Note that this task will be a presentation to brief the BOS on the entire project, not just the water and sewer line portion. However, the entire fee for this task is included in the water and sewer line fee. Separate briefings to the BOS for each separate project component will not be provided.

## **7. Water and Sewer Lines – Bidding Services**

- 7.1 Prepare the complete bid package including all bid documents, plans, and specifications, have them approved by the OWNER, distribute them to the potential bidders, and maintain a list of the potential bidders. Dewberry may charge a reasonable, non-refundable fee to potential bidders for bid documents.
- 7.2 The OWNER shall prepare the advertisement for construction bids, advertise the bid, and pay the advertising cost.
- 7.3 Provide five (5) sets of bid documents for the OWNER's use.
- 7.4 Attend and run a pre-bid conference and coordinate responses to questions from bidders.
- 7.5 Dewberry shall prepare, the OWNER shall approve, and Dewberry shall be responsible for distribution of any addenda.
- 7.6 Attend the bid opening, review the bids, and recommend to the OWNER award to the lowest responsive, responsible bidder who complies with all Federal, State and Local regulations.

## 8. Elevated Water Storage Tank - Design

For the purposes of this proposal, Dewberry anticipates that the elevated water storage tank will include the following components:

- Volume of 500,000 gallons
- Multi-leg or fluted column construction
- Approximate overflow elevation of 663 feet
- Separate control building (pre-fabricated, Smith Midland type building)
- Connection to SCADA system for remote monitoring

Should the anticipated components change significantly during design, additional design services may be required.

8.1 Prepare a 10% schematic for OWNER review. The 10% submission will include:

- Conceptual site plan layout
- Evaluation of tank types
- Sheet index showing conceptual layout of plan set
- Preliminary construction cost estimate

8.2 Meet with the OWNER to review the 10% submission. Comments will be addressed in the 35% design stage.

8.3 Surveying will be performed by others outside of the scope of this contract. Coordinate with the surveyor regarding the survey information collected for the project. This task will include initial coordination to provide direction on the survey area and components to be surveyed, and will be an on-going task during the design phase as issues are identified and need to be resolved.

8.4 Prepare 35% design plans for OWNER review. The 35% plan submission will include:

- Site plan layout, showing access, parking, and building and tank locations
- Conceptual layout of control building
- Preliminary system control narrative
- Updated construction cost estimate

8.5 Meet with the OWNER to review the 35% submission.

8.6 Address comments on the 35% submission and document responses back to the OWNER.

8.7 Identify the boring locations for geotechnical investigation at the site. Perform geotechnical investigations and complete geotechnical engineering report per Schnabel's proposal dated September 28, 2015 (Attachment D). For the water storage tank, 4 test to depths of about 5 to 50 feet will be completed. Total drilling depth will be approximately 220 LF.

- 8.8 Prepare 65% design plans and specifications for OWNER review. The 65% submission will include:
- Cover sheet with location map, sheet index, project title, and material quantity list
  - General notes and legend sheet
  - Standard construction notes and details sheet
  - E&S control narrative, notes and details
  - Listing of anticipated details
  - Plan sheets showing horizontal and vertical pipeline alignment
  - Tank elevation view
  - Preliminary tank details
  - Electrical preliminary design and control sequence
  - Preliminary SCADA specification
  - Geotechnical boring locations
  - Technical specifications
  - Updated construction cost estimate
- 8.9 Meet with the OWNER to review the 65% submission.
- 8.10 Address comments on the 65% submission and document responses back to the OWNER.
- 8.11 Prepare 95% design plans and specifications based on the preliminary design and applicable Federal, State, and Local regulations and requirements. The 95% submission will expand on the 65% submission items above to incorporate all elements required to bring the project to bid, including final details, contract documents, and updated construction cost estimate.
- 8.12 Prepare permit applications to obtain review agency approvals from Fluvanna County, DCR, and VDH as necessary.
- 8.13 A Virginia Stormwater Management Program (VSMP) general permit for construction sites is anticipated to be required, dependent upon the disturbed area. This involves the filing of a VSMP registration statement, a pollution prevention plan, and a permit application fee. Dewberry proposes to complete and file the registration statement and create a Stormwater Pollution Prevention Plan (SWPPP) specifically for the project. The permit fee depends on the total amount of land disturbance and will be paid by the OWNER.
- 8.14 Coordinate with review agencies to address comments and obtain approvals.
- 8.15 Meet with the OWNER to review the 95% design plans and specifications.
- 8.16 Address comments on the 95% submission and document responses back to the OWNER.
- 8.17 Submit FINAL plans and specifications ready for bidding.

## 9. Elevated Water Storage Tank – Bidding Services

9.1 Complete all bidding services outlined in Section 7 of this proposal, specific to the elevated water storage tank.

## 10. Water Booster Station - Design

For the purposes of this proposal, Dewberry anticipates that the water booster station will include the following components:

- Two (2) centrifugal pumps rated to deliver between 500 to 600 gallons per minute (GPM)
- Pre-cast pump building (pre-fabricated, Smith Midland type building)
- Packaged control panel
- Connection to SCADA system for remote monitoring
- It is assumed that all control with Variable Frequency Drives (VFDs) will be accomplished locally with SCADA system monitoring, trending, and changing setpoints

Should the anticipated components change significantly during design, additional design services may be required.

The water booster station design will be prepared in coordination with the sewage pump station design. Both projects will be part of one set of construction documents, with common title sheet, notes, details, and project manual/specifications.

10.1 Prepare a 10% schematic alignment for OWNER review. The 10% submission will include:

- Conceptual site plan layout
- Conceptual booster station building layout
- Preliminary pump sizing
- Sheet index showing conceptual layout of plan set
- Preliminary construction cost estimate

10.2 Meet with the OWNER to review the 10% submission. Comments will be addressed in the 35% design stage.

10.3 Surveying will be performed by others outside of the scope of this contract. Coordinate with the surveyor regarding the survey information collected for this project. This task will include initial coordination to provide direction on the survey area and components to be surveyed, and will be an on-going task during the design phase as issues are identified and need to be resolved.

10.4 Prepare 35% design plans for OWNER review. The 35% plan submission will include:

- Site plan layout, showing access, parking, and building location
- Conceptual layout of the interior of the booster station
- Preliminary system control narrative
- Updated construction cost estimate

- 10.5 Meet with the OWNER to review the 35% submission.
- 10.6 Address comments on the 35% submission and document responses back to the OWNER.
- 10.7 Identify the boring locations for geotechnical investigation at the site. Perform geotechnical investigations and complete geotechnical engineering report per Schnabel's proposal dated September 28, 2015 (Attachment D). For the water booster station, 4 test borings to depths of about 5 to 30 feet will be completed. Total drilling depth will be approximately 40 LF.
- 10.8 Prepare 65% design plans and specifications for OWNER review. The 65% submission will include:
- Cover sheet with location map, sheet index, project title, and material quantity list
  - General notes and legend sheet
  - Standard construction notes and details sheet
  - E&S control narrative, notes and details
  - Listing of anticipated details
  - Plan sheets showing horizontal and vertical pipeline alignment
  - Booster station building layout
  - Electrical and system controls preliminary design and control sequence
  - Preliminary SCADA system specification
  - Geotechnical boring locations
  - Technical specifications
  - Updated construction cost estimate
- 10.9 Meet with the OWNER to review the 65% submission.
- 10.10 Address comments on the 65% submission and document responses back to the OWNER.
- 10.11 Prepare 95% design plans and specifications based on the preliminary design and applicable Federal, State, and Local regulations and requirements. The 95% submission will expand on the 65% submission items above to incorporate all elements required to bring the project to bid, including final details, contract documents, and updated construction cost estimate.
- 10.12 Prepare permit applications to obtain review agency approvals from Fluvanna County, DCR, and VDH as necessary.
- 10.13 A Virginia Stormwater Management Program (VSMP) general permit for construction sites is anticipated to be required, dependent upon the disturbed area. This involves the filing of a VSMP registration statement, a pollution prevention plan, and a permit application fee. Dewberry proposes to complete and file the registration statement and create a Stormwater Pollution Prevention Plan (SWPPP) specifically for the project. The permit fee depends on the total amount of land disturbance and will be paid by the OWNER.
- 10.14 Coordinate with review agencies to address comments and obtain approvals.

10.15 Meet with the OWNER to review the 95% design plans and specifications.

10.16 Address comments on the 95% submission and document responses back to the OWNER.

10.17 Submit FINAL plans and specifications ready for bidding.

## **11. Water Booster Station – Bidding Services**

11.1 Complete all bidding services outlined in Section 7 of this proposal, specific to the water booster station.

11.2 The water booster station will be combined with the sewage pump station in one construction package. Bidding services for water booster station and sewage pump station construction package will be provided concurrently.

## **12. Sewage Pump Station - Design**

For the purposes of this proposal, Dewberry anticipates that the sewage pump station will include the following components:

- 1.0 MGD capacity
- Two (2) submersible non-clog pumps in precast concrete wet well
- Separate precast concrete valve vault
- Separate control building (pre-fabricated, Smith Midland type building)
- Connection to SCADA system for remote monitoring

Should the anticipated components change significantly during design, additional design services may be required.

The sewage pump station design will be prepared in coordination with the water booster station design. Both projects will be part of one set of construction documents, with common title sheet, notes, details, and project manual/specifications.

12.1 Prepare a 10% schematic for OWNER review. The 10% submission will include:

- Conceptual site plan layout
- Conceptual pump station layout
- Preliminary pump sizing
- Sheet index showing conceptual layout of plan set
- Preliminary construction cost estimate

12.2 Meet with the OWNER to review the 10% submission. Comments will be addressed in the 35% design stage.

12.3 Surveying will be performed by others outside of the scope of this contract. Coordinate with the surveyor regarding the survey information collected for the project. This task will include

- initial coordination to provide direction on the survey area and components to be surveyed, and will be an on-going task during the design phase as issues are identified and need to be resolved.
- 12.4 Prepare 35% design plans for OWNER review. The 35% plan submission will include:
- Site plan layout, showing access, parking, and building and wet well/valve vault locations
  - Conceptual pump station layout
  - Conceptual layout of control building
  - Preliminary system control narrative
  - Updated construction cost estimate
- 12.5 Meet with the OWNER to review the 35% submission.
- 12.6 Address comments on the 35% submission and document responses back to the OWNER.
- 12.7 Identify the boring locations for geotechnical investigation at the site. Perform geotechnical investigations and complete geotechnical engineering report per Schnabel's proposal dated September 28, 2015 (Attachment D). For the sewage pump station, 3 test borings to depths of about 5 to 50 feet will be completed. Total drilling depth will be approximately 60 LF.
- 12.8 Prepare 65% design plans and specifications for OWNER review. The 65% submission will include:
- Cover sheet with location map, sheet index, project title, and material quantity list
  - General notes and legend sheet
  - Standard construction notes and details sheet
  - E&S control narrative, notes and details
  - Listing of anticipated pump station details
  - Plan sheets showing horizontal and vertical pipeline alignment
  - Pump station section view
  - Pump curve information
  - Control building layout
  - Electrical and controls system preliminary design and control sequence
  - Preliminary SCADA specification
  - Geotechnical boring locations
  - Technical specifications
  - Updated construction cost estimate
- 12.9 Meet with the OWNER to review the 65% submission.
- 12.10 Address comments on the 65% submission and document responses back to the OWNER.
- 12.11 Prepare 95% design plans and specifications based on the preliminary design and applicable Federal, State, and Local regulations and requirements. The 95% submission will expand on

- the 65% submission items above to incorporate all elements required to bring the project to bid, including final details, contract documents, and updated construction cost estimate.
- 12.12 Prepare permit applications to obtain review agency approvals from Fluvanna County, DCR, and DEQ as necessary.
- 12.13 A Virginia Stormwater Management Program (VSMP) general permit for construction sites is anticipated to be required, dependent upon the disturbed area. This involves the filing of a VSMP registration statement, a pollution prevention plan, and a permit application fee. Dewberry proposes to complete and file the registration statement and create a Stormwater Pollution Prevention Plan (SWPPP) specifically for the project. The permit fee depends on the total amount of land disturbance and will be paid by the OWNER.
- 12.14 Coordinate with review agencies to address comments and obtain approvals.
- 12.15 Meet with the OWNER to review the 95% design plans and specifications.
- 12.16 Address comments on the 95% submission and document responses back to the OWNER.
- 12.17 Submit FINAL plans and specifications ready for bidding.

### **13. Sewage Pump Station – Bidding Services**

- 13.1 Complete all bidding services outlined in Section 7 of this proposal, specific to the sewage pump station.
- 13.2 The sewage pump station will be combined with the water booster station in one construction package. Bidding services for sewage pump station and water booster station construction package will be provided concurrently.

## **CONSTRUCTION ADMINISTRATION SERVICES**

### **14. Water and Sewer Lines – Construction Administration**

- 14.1 Conduct a pre-construction meeting with the OWNER, CONTRACTOR, and all affected agencies. Dewberry will take meeting minutes and provide a written copy to all in attendance.
- 14.2 Review and approve all shop drawings, equipment drawings, and material standards submitted by the CONTRACTOR and provide copies of each to the OWNER.
- 14.3 Furnish consulting services during construction to answer any construction or contractual problems and determine that the work is proceeding in accordance with contract documents.
- 14.4 Visit the site during construction, once per month outside of the monthly progress meeting, reviewing the work in detail with the CONTRACTOR and inspector.

- 14.5 Review and approve monthly and final payments to the CONTRACTOR. Attend monthly progress/pay request meetings to discuss the status of the work.
- 14.6 Furnish the OWNER with monthly progress reports detailing the percent of completed construction with respect to time and money, describing any problems.
- 14.7 Prepare and distribute to the CONTRACTOR for approval all change orders prior to submission to the OWNER for final approval.
- 14.8 Transfer field notes from the inspector and CONTRACTOR to the original drawings and provide one (1) copy of digital record drawings and three (3) printed paper sets of Record Drawings.
- 14.9 Attend substantial completion inspection and final inspection. Provide written correspondence to the OWNER that materials and equipment and construction were provided in substantial compliance with the plans and specifications.
- 14.10 For the purposes of this proposal, Dewberry anticipates a construction duration of 18 months for the water and sewer lines. Should the duration of the construction contract change, Dewberry's fee for construction administration services will be modified accordingly.

#### **15. Elevated Water Storage Tank – Construction Administration**

- 15.1 Complete all construction administration services outlined in Section 14 of this proposal, specific to the elevated water storage tank.
- 15.2 For the purposes of this proposal, Dewberry anticipates a construction duration of 12 months for the elevated water storage tank. Should the duration of the construction contract change, Dewberry's fee for construction administration will be modified accordingly.

#### **16. Water Booster Station – Construction Administration**

- 16.1 Complete all construction administration services outlined in Section 14 of this proposal, specific to the water booster station.
- 16.2 The water booster station will be combined with the sewage pump station in one construction package. Construction administration services for the water booster station and sewage pump station construction package will be provided concurrently.
- 16.3 For the purposes of this proposal, Dewberry anticipates a construction duration of 12 months for the water booster station/sewage pump station construction package. Should the duration of the construction contract change, Dewberry's fee for construction administration will be modified accordingly.

#### **17. Sewage Pump Station – Construction Administration**

- 17.1 Complete construction administration services outlined in Section 14 of this proposal, specific to the sewage pump station.

- 17.2 The sewage pump station will be combined with the water booster station in one construction package. Construction administration services for the sewage pump station and water booster station construction package will be provided concurrently.
- 17.3 For the purposes of this proposal, Dewberry anticipates a construction duration of 12 months for the sewage pump station/water booster station construction package. Should the duration of the construction contract change, Dewberry's fee for construction administration will be modified accordingly.

### **CONSTRUCTION INSPECTION SERVICES**

#### **18. Water and Sewer Lines – Construction Inspection**

- 18.1 Provide full-time construction inspection services, 40 hours per week for the duration of the construction contract (18 months) to generally observe trench excavation, installation of pipe and appurtenances, backfill, compaction, and testing.
- 18.2 Inspector shall monitor Contractor's work and verify compliance with contract documents.
- 18.3 Services specifically exclude special geotechnical inspections, which will be provided by the CONTRACTOR per the terms of the specifications.
- 18.4 For the purposes of this proposal, Dewberry anticipates a construction duration of 18 months for the water and sewer lines. Should the duration of the construction contract change, Dewberry's fee for construction inspection will be modified accordingly.

#### **19. Elevated Water Storage Tank – Construction Inspection**

- 19.1 For construction inspection services for the elevated water storage tank, provide construction inspection to monitor the Contractor's work and verify compliance with the contract documents. For the anticipated 12 month construction schedule, it is assumed that only 9 months of inspection will be required due to equipment/material lead times. We have based our proposal on the understanding that one (1) inspector will be needed on a full-time basis to split inspection time between the Elevated Water Storage Tank, Water Booster Station, and Sewage Pump Station projects. Therefore, our fee for inspection on the elevated water storage tank includes 1/3 of the time for 1 person, 40 hours per week, for 9 months. Should the duration of the construction contract or inspection requirements change, Dewberry's fee for construction inspection will be modified accordingly.
- 19.2 Construction inspection for the elevated water storage tank specifically excludes coating inspection and testing.

#### **20. Water Booster Station – Construction Inspection**

- 20.1 For construction inspection services for the water booster station, provide construction inspection to monitor the Contractor's work and verify compliance with the contract

documents. For the anticipated 12 month construction schedule, it is assumed that only 9 months of inspection will be required due to equipment/material lead times. We have based our proposal on the understanding that one (1) inspector will be needed on a full-time basis to split inspection time between the Elevated Water Storage Tank, Water Booster Station, and Sewage Pump Station projects. Therefore, our fee for inspection on the water booster station includes 1/3 of the time for 1 person, 40 hours per week, for 9 months. Should the duration of the construction contract or inspection requirements change, Dewberry's fee for construction inspection will be modified accordingly.

## **21. Sewage Pump Station – Construction Inspection**

21.1 For construction inspection services for the sewage pump station, provide construction inspection to monitor the Contractor's work and verify compliance with the contract documents. For the anticipated 12 month construction schedule, it is assumed that only 9 months of inspection will be required due to equipment/material lead times. We have based our proposal on the understanding that one (1) inspector will be needed on a full-time basis to split inspection time between the Elevated Water Storage Tank, Water Booster Station, and Sewage Pump Station projects. Therefore, our fee for inspection on the sewage pump station includes 1/3 of the time for 1 person, 40 hours per week, for 9 months. Should the duration of the construction contract or inspection requirements change, Dewberry's fee for construction inspection will be modified accordingly.

## SCHEDULE

Dewberry can begin work on this project immediately upon receiving a Notice to Proceed. Assuming a Notice to Proceed of November 2, 2015, Dewberry anticipates the following project milestones:

Notice to Proceed.....	November 2015
Survey (By Others).....	December 2015
Design Services Complete (All Projects).....	August 2016
Regulatory Approvals (All Projects).....	September 2016
Advertise for Bid (All Projects) .....	September 2016
Bids Received (All Projects) .....	October 2016
Construction Contract Award (All Projects) .....	November 2016
Project Construction.....	December 2016 – July 2018

## FEE (LUMP SUM)

Dewberry's lump sum fee for these services is broken out by task (below) and by project year (on the following page) as follows. A copy of our man-hour breakout estimate is included as Attachment A.

1. PER Validation.....	\$22,550
2. Geotechnical Engineering for Water and Sewer Lines .....	\$49,800
3. Environmental Investigation and Permitting Services – Entire Project .....	\$25,210
4. Utility Designation along Route 250 and at the Women's Prison .....	\$57,530
5. Water and Sewer Lines – Preliminary Design (through 65%).....	\$64,380
6. Water and Sewer Lines – Final Design.....	\$47,870
7. Water and Sewer Lines – Bidding Services .....	\$6,640
8. Elevated Water Storage Tank - Design .....	\$86,865
9. Elevated Water Storage Tank – Bidding Services .....	\$6,640
10. Water Booster Station - Design .....	\$54,475
11. Water Booster Station – Bidding Services .....	\$3,020
12. Sewage Pump Station - Design .....	\$69,885
13. Sewage Pump Station – Bidding Services .....	\$3,020
<b>SUBTOTAL – ENGINEERING, DESIGN, AND BIDDING (Lump Sum) .....</b>	<b>\$497,885</b>
14. Water and Sewer Lines – Construction Administration.....	\$99,150
15. Elevated Water Storage Tank – Construction Administration.....	\$78,210
16. Water Booster Station – Construction Administration.....	\$40,940
17. Sewage Pump Station – Construction Administration.....	\$43,190
<b>SUBTOTAL – CONSTRUCTION ADMINISTRATION (Lump Sum) .....</b>	<b>\$261,490</b>
18. Water and Sewer Lines – Construction Inspection.....	\$249,600
19. Elevated Water Storage Tank – Construction Inspection .....	\$41,600
20. Water Booster Station – Construction Inspection.....	\$41,600
21. Sewage Pump Station – Construction Inspection.....	\$41,600
<b>SUBTOTAL – CONSTRUCTION INSPECTION (Lump Sum) .....</b>	<b>\$374,400</b>
<b>GRAND TOTAL FOR ALL SERVICES (Lump Sum) .....</b>	<b>\$1,133,775</b>

**Fee Breakout by Project Year:**

**Year 1 – Engineering, Design, Bidding: November 2015 to October 2016**

1. PER Validation .....	\$22,550
2. Geotechnical Engineering for Water and Sewer Lines .....	\$49,800
3. Environmental Investigation and Permitting Services – Entire Project .....	\$25,210
4. Utility Designation along Route 250 and at the Women’s Prison .....	\$57,530
5. Water and Sewer Lines – Preliminary Design (through 65%) .....	\$64,380
6. Water and Sewer Lines – Final Design .....	\$47,870
7. Water and Sewer Lines – Bidding Services .....	\$6,640
8. Elevated Water Storage Tank - Design .....	\$86,865
9. Elevated Water Storage Tank – Bidding Services .....	\$6,640
10. Water Booster Station - Design .....	\$54,475
11. Water Booster Station – Bidding Services .....	\$3,020
12. Sewage Pump Station - Design .....	\$69,885
13. Sewage Pump Station – Bidding Services .....	\$3,020
<b>SUBTOTAL – Year 1 (Lump Sum) .....</b>	<b>\$497,885</b>

**Year 2 – Construction Phase Services: November 2016 to October 2017**

14. Water and Sewer Lines – Construction Administration.....	\$47,000
15. Elevated Water Storage Tank – Construction Administration.....	\$78,210
16. Water Booster Station – Construction Administration.....	\$40,940
17. Sewage Pump Station – Construction Administration.....	\$43,190
18. Water and Sewer Lines – Construction Inspection.....	\$165,800
19. Elevated Water Storage Tank – Construction Inspection .....	\$41,600
20. Water Booster Station – Construction Inspection .....	\$41,600
21. Sewage Pump Station – Construction Inspection.....	\$41,600
<b>SUBTOTAL – Year 2 (Lump Sum) .....</b>	<b>\$499,940</b>

**Year 3 – Construction Phase Services: November 2017 to July 2018**

14. Water and Sewer Lines – Construction Administration.....	\$52,150
18. Water and Sewer Lines – Construction Inspection.....	\$83,800
<b>SUBTOTAL – Year 3 (Lump Sum) .....</b>	<b>\$135,950</b>

**GRAND TOTAL FOR ALL SERVICES (Lump Sum) .....** **\$1,133,775**

**CLARIFICATIONS**

1. Dewberry assumes that the PER completed by RK&K in March 2015 is sufficient for regulatory agency approvals. Other than the PER Validation tasks included in the scope of services, we do not propose completing additions or updates to the PER for regulatory agency approvals.
2. It is anticipated that a SCADA system will be required to monitor, display, and provide trending for the tank level, meter vault at the Louisa County interconnection, booster pump station, and sewage pump station. It is anticipated that a local work station will be required at the Water Booster Station for data storage operator interface functions and a remote work station can be incorporated into the design to allow the office to view the current status of the systems, change operational setpoints and

view/print historical data. Programmable Logic Controllers (PLC's) of the same manufacturer will be required at each site for local control/monitoring. It is anticipated that a dedicated radio system and/or internet will provide the means of communications for this project.

3. Dewberry understands that the project will be grouped into three (3) construction packages: 1 for the water and sewer lines, 1 for the elevated water storage tank, and 1 for the pump stations (water booster station and sewage pump station). We have prepared our fee based on this anticipated construction packaging. Should the construction packaging change during the course of the project, Dewberry's fee shall be modified accordingly.

## EXCLUSIONS

The following services are specifically excluded from the scope of services, but could be provided by Dewberry as additional services if authorized in writing by the OWNER.

1. Services resulting from significant changes in the general scope, extent or character of the project or its design including, changes in size, complexity, schedule, character of construction or method of financing; and revising previously accepted studies, reports, design documents or Contract Documents when such revisions are required by changes in laws, rules, regulations, ordinances, codes or orders enacted subsequent to their preparation, or are due to any other causes beyond Dewberry's control.
2. Surveying. Surveying of the project sites and corridor will be completed by others. Dewberry will provide direction to the surveyor hired by the County regarding the areas to be surveyed and the information to capture. Dewberry will not be responsible for the accuracy of the survey information provided by others. Dewberry will also not be responsible for overall schedule delays resulting from delays in performance by the surveyor.
3. Preparation of easement plats.
4. Easement acquisition or property appraisal services.
5. Special geotechnical inspections during construction. Dewberry will include a requirement in the project specifications that these special inspections will be provided by the CONTRACTOR as a part of the construction contract.
6. The following environmental investigation/permitting items:
  - Wetland functional analysis for on-site or off-site mitigation (not mitigation through purchase of credits). This will involve an additional site visit for further investigations and to set a mitigation value for impacted wetlands.
  - Stream attribute forms for on-site or off-site mitigation (not mitigation through purchase of credits). This will involve an additional site visit for further investigation and to apply a numerical ranking system on streams impacted for mitigation.
  - Wetland mitigation design plans
  - Field survey of wetland flagging
  - Environmental site assessments (Phase I, II, and III)
  - Endangered species surveys (i.e. mussel surveys)

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- Permit fees
  - Water Quality Impact Assessment
  - Floodplain studies
7. Assistance in connection with bid protests, re-bidding or renegotiating contracts for construction, materials, equipment or services.
  8. A radio path survey. It is anticipated that the County will coordinate with the provider of the existing radio communication system within the County to verify radio communication requirements. It is assumed that the County will contract with the existing radio communication provider to conduct a radio path survey and assist in specifying the required radio communication equipment as needed for communication between the tank, meter vault, booster station, sewage pump station, and office workstation.
  9. Preparing to serve or serving as a consultant or witness for OWNER in any litigation, arbitration or other legal or administrative proceeding involving the Project.
  10. Additional or extended services during construction resulting from significant delays, changes or price increases occurring as a direct or indirect result of the CONTRACTOR's material, equipment, labor or energy shortages, work damaged by fire or other causes during construction, a significant amount of defective or neglected work of any CONTRACTOR, acceleration of the schedule involving services beyond normal working hours, and default by any CONTRACTOR.

**TERMS AND CONDITIONS**

Services under this agreement will be provided in accordance with the General Terms, Conditions, and Instructions to Bidders and Contractors, which was attached to Fluvanna County's RFP #2015-03 for Zion Crossroads Water & Sewer System Design Services, and is incorporated into this proposal by reference.

We look forward to the opportunity to serve Fluvanna County on this project. If you have any questions regarding our proposal, or if you require any additional information, please feel free to contact us.

Sincerely,

Dewberry Engineers Inc.



David S. Maxwell, PE, LEED AP  
Vice President



Danylo A. Villhauer, PE  
Project Manager

Attachment A: Manpower and Fee Estimate Breakout

Attachment B: Phase 1 Water System Map

Attachment C: Phase 1 Sewer System Map

Attachment D: Schnabel Proposal (Geotechnical) dated September 28, 2015

Attachment E: Accumark Proposal (Utility Designation) dated September 28, 2015

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**FLUVANNA COUNTY**

**ZION CROSSROADS WATER & SEWER SYSTEM DESIGN SERVICES**

**FEE ESTIMATE FOR ENGINEERING SERVICES**

REVISED October 5, 2015

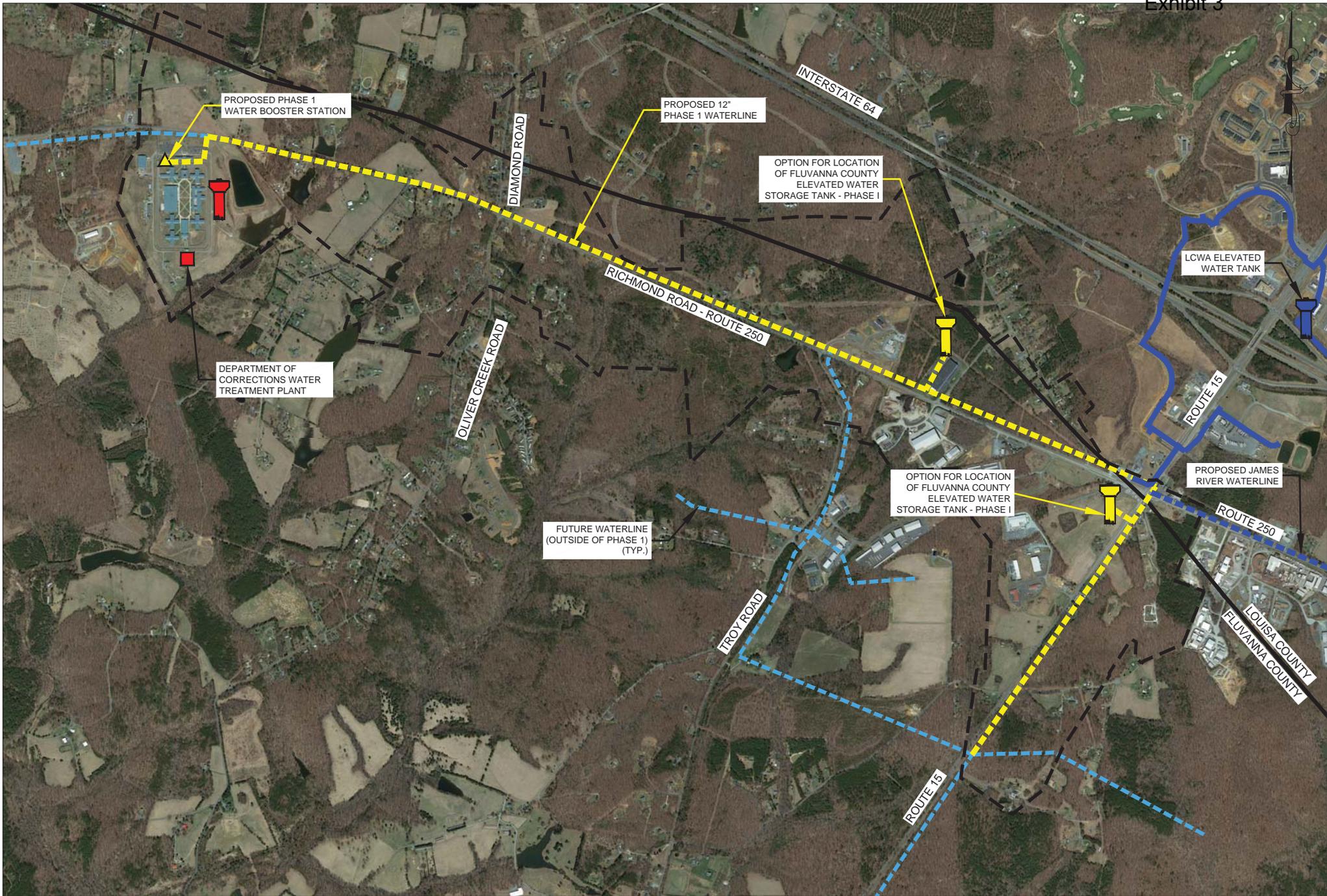
Exhibit 3

PROJECT TASKS	HOURS DEDICATED TO SUBTASK											TOTAL COST
	QA/QC/ PRINCIPAL	PROJECT MANAGER	PROJECT ENGINEER	STAFF ENGINEER	DESIGNER	CADD TECHNICIAN	ADMIN PROF	SURVEYOR	SURVEY PARTY	CONST INSPECTOR	REIMBURSABLE	
	190.00	150.00	125.00	90.00	110.00	75.00	60.00	120.00	145.00	80.00		
<b>1. PER Validation Report - Entire Project</b>												
Kickoff meeting (1.1)	3	3										
Review PER and existing information (1.2, 1.3)		4	12									
Determine preliminary easement requirements (1.4)			2			8		8				
Evaluate issues for each routing alternative (1.5)		1	4									
Field walkthrough (1.6)		4	4									
Review/select recommended route alternative (1.7)		4	4									
Coordinate with review agencies (1.8 - 1.10)			8	8								
Develop water and sewer system models for facility sizing (1.11)		6	12	32								
Budgetary cost estimates (1.12)			4	8								
Prepare and submit draft PER Validation (1.13)	1	4	16	8		8	1					
Review meeting with County (1.14)	3	3										
Address County comments and submit final report (1.15)		2	8				1					
<b>Subtotal (Item 1)</b>	<b>7</b>	<b>31</b>	<b>74</b>	<b>56</b>	<b>0</b>	<b>16</b>	<b>2</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>\$0</b>	<b>\$22,550</b>
<b>2. Geotechnical Engineering for Water and Sewer Lines</b>												
Geotechnical borings and report (2.1 - 2.4)		4	16								\$47,200	
<b>Subtotal (Item 2)</b>	<b>0</b>	<b>4</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$47,200</b>	<b>\$49,800</b>
<b>3. Environmental Investigation and Permitting - Entire Project</b>												
Wetland/Stream Delineation and Report (3.1 - 3.2, 3.4)				40	40	8						
Jurisdictional Determination (3.5)				16	16							
Threatened & Endangered Species Database Review (3.6 - 3.7)				16								
Permit application (JPA assumed) (3.8)			16	72		24	8					
Mitigation Assistance (3.9)			2	8			4					
<b>Subtotal (Item 3)</b>	<b>0</b>	<b>0</b>	<b>18</b>	<b>152</b>	<b>56</b>	<b>32</b>	<b>12</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$0</b>	<b>\$25,210</b>
<b>4. Utility Designation Along Route 250 and at the Women's Prison</b>												
Utility Designation - research and field investigations (4.2)		4	16								\$37,285	
Field survey utility markings (4.3)											\$12,930	
Prepare CAD plans of utility markings, provide QA/QC (4.3)			4								\$4,215	
<b>Subtotal (Item 4)</b>	<b>0</b>	<b>4</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$54,430</b>	<b>\$57,530</b>
<b>5. Water and Sewer Lines - Preliminary Design (through 65%)</b>												
Prepare 10% schematic (5.1)			20	40		20					\$100	
10% review meeting with County (5.2)		2	2									
Coordinate with surveyor for survey information (5.3)		2	24	8								
Prepare 35% plans (5.4)			40	100		60					\$250	
35% review meeting with County (5.5)	4	4	4									
Address 35% comments (5.6)		2	4	8								
Prepare 65% design submission (5.8)			40	120		80					\$250	
65% review meeting with County (5.9)	4	4	4									
Address 65% comments (5.10)		2	6	16								
BOS presentation on 65% design (all projects together) (5.11)	2	8	16									
<b>Subtotal (Item 5)</b>	<b>10</b>	<b>24</b>	<b>160</b>	<b>292</b>	<b>0</b>	<b>160</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$600</b>	<b>\$64,380</b>
<b>6. Water and Sewer Lines - Final Design</b>												
Prepare 95% design submission (6.1, 6.2)	2	8	40	80		40					\$250	
Prepare 95% design submission - Electrical/SCADA for vault (6.1, 6.2)			24			16						
Prepare permit applications (6.3)			16	40								
SWPPP and VSMP registration statement (6.4)		2	16	32			4					
Coordinate review agency approvals (6.5)		4	16									
Construction cost estimate (6.6)		4	10									
95% review meeting with County (6.7)	4	4	4									
Address 95% review comments and finalize (6.8, 6.9)		8	16	16		8	4				\$250	
BOS presentation on final design (all projects together) (6.10)	2	8	16									
<b>Subtotal (Item 6)</b>	<b>8</b>	<b>38</b>	<b>158</b>	<b>168</b>	<b>0</b>	<b>64</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$500</b>	<b>\$47,870</b>

<b>7. Water and Sewer Lines - Bidding Services</b>													
Prepare bid package & Coordinate plan distribution (7.1 - 7.3)		2	4					2					
Pre-bid conference (7.4)		4	8										
Answer bidder questions and develop addenda (7.5)		8	16					2					
Bid opening, review, and recommendation (7.6)		2	4										
<b>Subtotal (Item 7)</b>	<b>0</b>	<b>16</b>	<b>32</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$0</b>	<b>\$6,640</b>
<b>8. Elevated Water Storage Tank - Design</b>													
Prepare 10% schematic (8.1)			10	32			16					\$75	
10% review meeting with County (8.2)		4	4										
Coordinate with surveyor for survey information (8.3)		2	8										
Prepare 35% plans (8.4)		8	24	56			24					\$150	
35% review meeting with County (8.5)	4	4	4										
Address 35% comments (8.6)		2	4	8									
Geotechnical investigation and report (8.7)		2	4									\$6,900	
Prepare 65% design submission - Civil (8.8)	4	20	40	80			24					\$200	
Prepare 65% design submission - Electrical/SCADA (8.8)			32				12						
65% review meeting with County (8.9)	4	4	4										
Address 65% comments (8.10)			8	16									
Prepare 95% design submission - Civil (8.11)	2	8	24	40			16					\$200	
Prepare 95% design submission - Electrical/SCADA (8.11)			32				12						
Prepare permit applications (8.12)			8	24									
SWPPP and VSMP registration statement (8.13)	2	10	20				4						
Coordinate review agency approvals (8.14)		2	8	4									
95% review meeting with County (8.15)	4	4	4										
Address 95% review comments and finalize (8.16, 8.17)		8	12	16			4	4				\$200	
<b>Subtotal (Item 8)</b>	<b>18</b>	<b>70</b>	<b>240</b>	<b>296</b>	<b>0</b>	<b>108</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$7,725</b>	<b>\$86,865</b>
<b>9. Elevated Water Storage Tank - Bidding Services</b>													
Prepare bid package & Coordinate plan distribution		2	4					2					
Pre-bid conference		4	8										
Answer bidder questions and develop addenda		8	16					2					
Bid opening, review, and recommendation		2	4										
<b>Subtotal (Item 9)</b>	<b>0</b>	<b>16</b>	<b>32</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$0</b>	<b>\$6,640</b>
<b>10. Water Booster Station - Design (Bid Package Combined with Sewage Pump Station)</b>													
Prepare 10% schematic (10.1)			4	10			6					\$75	
10% review meeting with County (10.2)		1	1										
Coordinate with surveyor for survey information (10.3)		2	8										
Prepare 35% plans (10.4)		2	12	20			16					\$150	
35% review meeting with County (10.5)		2	2										
Address 35% comments (10.6)		2	2	4									
Geotechnical investigation and report (10.7)		2	4									\$5,825	
Prepare 65% design submission - Civil (10.8)		4	24	32			8					\$150	
Prepare 65% design submission - Electrical/SCADA (10.8)			48				12						
65% review meeting with County (10.9)	2	2	2										
Address 65% comments (10.10)			4	12									
Prepare 95% design submission (10.11)	2	8	16	24			8					\$150	
Prepare 95% design submission - Electrical/SCADA (10.11)			48				12						
Prepare permit applications (10.12)			4	10									
SWPPP and VSMP registration statement (10.13)		2	4	10				2					
Coordinate review agency approvals (10.14)		2	4	4									
95% review meeting with County (10.15)	2	2	2										
Address 95% review comments and finalize (10.16, 10.17)		2	6	12			2	2				\$200	
<b>Subtotal (Item 10)</b>	<b>6</b>	<b>33</b>	<b>195</b>	<b>138</b>	<b>0</b>	<b>64</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$6,550</b>	<b>\$54,475</b>
<b>11. Water Booster Station - Bidding Services (Bid Package Combined with Sewage Pump Station)</b>													
Prepare bid package & Coordinate plan distribution		1	2					1					
Pre-bid conference		2	4										
Answer bidder questions and develop addenda		2	8					1					
Bid opening, review, and recommendation		1	2										
<b>Subtotal (Item 11)</b>	<b>0</b>	<b>6</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$0</b>	<b>\$3,020</b>

<b>12. Sewage Pump Station - Design (Bid Package Combined with Water Booster Station)</b>												<b>Exhibit 3</b>
Prepare 10% schematic (12.1)			8	24		10						
10% review meeting with County (12.2)		2	2									
Coordinate with surveyor for survey information (12.3)		2	8									
Prepare 35% plans (12.4)		6	24	48		16					\$150	
35% review meeting with County (12.5)		2	2									
Address 35% comments (12.6)			4	8								
Geotechnical investigation and report (12.7)		2	4								\$6,300	
Prepare 65% design submission - Civil (12.8)	2	16	40	64		16					\$200	
Prepare 65% design submission - Electrical/SCADA (12.8)			28			12						
65% review meeting with County (12.9)	2	2	2									
Address 65% comments (12.10)			8	16								
Prepare 95% design submission (12.11)	2	8	20	32		16					\$200	
Prepare 95% design submission - Electrical/SCADA (12.11)			32			12						
Prepare permit applications (12.12)			4	10								
SWPPP and VSMP registration statement (12.13)	2	4	10				4					
Coordinate review agency approvals (12.14)		2	4	4								
95% review meeting with County (12.15)	2	2	2									
Address 95% review comments and finalize (12.16, 12.17)		6	10	16		4	2				\$200	
<b>Subtotal (Item 12)</b>	<b>8</b>	<b>52</b>	<b>206</b>	<b>232</b>	<b>0</b>	<b>86</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$7,125</b>	
<b>13. Sewage Pump Station - Bidding Services (Bid Package Combined with Water Booster Station)</b>												
Prepare bid package & Coordinate plan distribution		1	2				1					
Pre-bid conference		2	4									
Answer bidder questions and develop addenda		2	8				1					
Bid opening, review, and recommendation		1	2									
<b>Subtotal (Item 13)</b>	<b>0</b>	<b>6</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$0</b>	<b>\$3,020</b>
<b>SUBTOTAL - ENGINEERING, DESIGN, AND BIDDING (LUMP SUM)</b>	<b>57</b>	<b>300</b>	<b>1183</b>	<b>1334</b>	<b>56</b>	<b>530</b>	<b>52</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>\$124,130</b>	<b>\$497,885</b>
<b>14. Water and Sewer Lines - Construction Administration</b>												
Pre-construction meeting (14.1)	4	4	8									
Shop drawing review (14.2)		16	40									
Consulting during construction - 18 month duration (14.3)	16	160	232									
Monthly site visits (1 per month) - 18 month duration (14.4)		36	36									
Monthly progress meetings (1 per month) - 18 month duration (14.5, 14.6)		36	36									
Change order preparation (14.7)		12	24									
Record drawings (14.8)		2	24			40					\$250	
Substantial completion and final inspections (14.9)		8	8									
<b>Subtotal (Item 14)</b>	<b>20</b>	<b>274</b>	<b>408</b>	<b>0</b>	<b>0</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$250</b>	<b>\$99,150</b>
<b>15. Elevated Water Storage Tank - Construction Administration</b>												
Pre-construction meeting	4	4	8									
Shop drawing review		32	64									
Consulting during construction - 12 month duration	12	96	144									
Monthly site visits (1 per month) - 12 month duration		24	24									
Monthly progress meetings (1 per month) - 12 month duration		24	24									
Change order preparation		8	20									
Record drawings		2	16			24					\$250	
O&M Manual		8	24	8								
Substantial completion and final inspections		8	8									
<b>Subtotal (Item 15)</b>	<b>16</b>	<b>206</b>	<b>332</b>	<b>8</b>	<b>0</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$250</b>	<b>\$78,210</b>
<b>16. Water Booster Station - Construction Administration (Construction Package Combined with Sewage Pump Station)</b>												
Pre-construction meeting		2	4									
Shop drawing review		8	24									
Consulting during construction - 12 month duration	4	24	48									
Monthly site visits (1 per month) - 12 month duration		12	12									
Monthly progress meetings (1 per month) - 12 month duration		12	12									
Change order preparation		4	12									
Record drawings		2	12			12					\$200	
O&M Manual		8	32	72		16						
Substantial completion and final inspections		4	4									
<b>Subtotal (Item 16)</b>	<b>4</b>	<b>76</b>	<b>160</b>	<b>72</b>	<b>0</b>	<b>28</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$200</b>	<b>\$40,940</b>

<b>17. Sewage Pump Station - Construction Administration (Construction Package Combined with Water Booster Station)</b>											
Pre-construction meeting		2	4								
Shop drawing review		16	32								
Consulting during construction - 12 month duration	4	24	48								
Monthly site visits (1 per month) - 12 month duration		12	12								
Monthly progress meetings (1 per month) - 12 month duration		12	12								
Change order preparation		4	12								
Record drawings		2	12			12					\$250
O&M Manual		8	32	72		16					
Substantial completion and final inspections		4	4								
<b>Subtotal (Item 17)</b>	<b>4</b>	<b>84</b>	<b>168</b>	<b>72</b>	<b>0</b>	<b>28</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$250</b>
<b>SUBTOTAL CONSTRUCTION ADMINISTRATION (LUMP SUM)</b>	<b>44</b>	<b>640</b>	<b>1068</b>	<b>152</b>	<b>0</b>	<b>120</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$950</b>
<b>18. Water and Sewer Lines - Construction Inspection</b>											
Full-time construction inspection (40 hours/week, 18 months)										3120	
<b>Subtotal (Item 18)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3120</b>	<b>\$0</b>
<b>19. Elevated Water Storage Tank - Construction Inspection</b>											
Full-time construction inspection (40 hours/week, 1/3 of 9 months)										520	
<b>Subtotal (Item 19)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>520</b>	<b>\$0</b>
<b>20. Water Booster Station - Construction Inspection</b>											
Full-time construction inspection (40 hours/week, 1/3 of 9 months)										520	
<b>Subtotal (Item 20)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>520</b>	<b>\$0</b>
<b>21. Sewage Pump Station - Construction Inspection</b>											
Full-time construction inspection (40 hours/week, 1/3 of 9 months)										520	
<b>Subtotal (Item 21)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>520</b>	<b>\$0</b>
<b>SUBTOTAL CONSTRUCTION INSPECTION (LUMP SUM)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4680</b>	<b>\$0</b>
<b>GRAND TOTAL FOR ALL SERVICES (LUMP SUM)</b>	<b>101</b>	<b>940</b>	<b>2251</b>	<b>1486</b>	<b>56</b>	<b>650</b>	<b>52</b>	<b>8</b>	<b>0</b>	<b>4680</b>	<b>\$125,080</b>



**LEGEND**

- PROPOSED BOOSTER PUMP STATION PHASE 1
- EXISTING WATER TREATMENT PLANT
- PROPOSED WATER STORAGE TANK PHASE 1
- EXISTING WATER STORAGE TANK
- PHASE 1 BOUNDARY
- PHASE 1 WATERLINE
- FUTURE WATERLINE (OUTSIDE OF PHASE 1)
- PROPOSED JAMES RIVER WATERLINE
- EXISTING LCWA WATER SYSTEM





LEGEND

- ▲ PROPOSED SANITARY PUMP STATION PHASE 1
- EXISTING WASTEWATER TREATMENT PLANT
- PHASE 1 BOUNDARY
- PHASE 1 SEWER FORCE MAIN
- FUTURE FORCE MAIN (OUTSIDE OF PHASE 1)
- EXISTING LCWA GRAVITY SEWER SYSTEM
- EXISTING LCWA FORCE MAIN
- ▲ FUTURE SANITARY PUMP STATION (OUTSIDE PHASE 1)





September 28, 2015

Mr. David Maxwell, P.E.  
Dewberry Engineers, Inc.  
4805 Lake Brook Drive, Suite 200  
Glen Allen, VA 23060

**Subject: Revision No.1, Proposal for Geotechnical Engineering Services, Zion Crossroads Water and Sewer System Design Services, Fluvanna County, Virginia (Schnabel No. P5613160)**

Dear Mr. Maxwell:

**SCHNABEL ENGINEERING CONSULTANTS, INC.** (Schnabel) is pleased to submit this revised proposal to provide geotechnical engineering services for this project. Our services will be provided according to our Master Services Agreement For Professional Services dated June 4, 2013. We prepared our original proposal in response to your request on September 14, 2015.

#### **SITE DESCRIPTION**

Fluvanna County is located in the Piedmont region of Virginia and is bordered by Louisa County to the north, Goochland County to the east, Cumberland and Buckingham Counties to the south, and Albemarle County to the west. Fluvanna County comprises roughly 290 square miles, of which the Zion Crossroads Community Planning Area (CPA) in the northeastern portion of the county comprises nearly 4,700 acres. The CPA begins at the northwest corner of Fluvanna County at the shared border with Albemarle County and Louisa County and extends toward the east. The CPA is generally south of Interstate 64 and generally follows Richmond Road (Route 250) extending roughly ½ mile to 1 mile beyond the road to the north and south and extends east roughly 1 mile beyond the intersection of Route 250 and James Madison Highway (Route 15). The site for the proposed project is within the CPA, beginning at about the Fluvanna Correctional Center for Women, extending east along Richmond Road to the intersection of Route 15, and then extending south down Route 15 to Mockingbird Lane.

In the vicinity of the Correctional Center, the site is relatively flat and grass covered. A few small ponds are located to the east of the facility. The portion of the site that extends east down Route 250 is a combination of open farm fields and moderately wooded areas and includes a crossing of Oliver Creek. The area of the site that extends south down Route 15 is moderately wooded, with some open grass covered areas located closer to the intersection of Route 250. Site grades are at about El 450 in the vicinity of the Correctional Facility and gradually increase towards the east to about El 550 at the intersection of Route 250 and Route 15 and then grade down to about EL 500 at Mockingbird Lane.

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**Zion Crossroads Water and Sewer System Design Services**

Based on our review of geology maps, we expect subsurface soils to consist of residual soils transitioning to disintegrated rock and ultimately bed rock. The residual soils consist of a mixture of clay, silt and sand and the underlying parent rock in this area consists of metagraywacke, quartzose schist, and mélange. Based on borings drilled in the vicinity of the site by our firm, we expect disintegrated rock about 10 to 25 ft below the existing ground surface.

We obtained the site information from the Phase 1 Sewer System site plans and Phase 1 Water System site plans by Dewberry dated September 2015, a review of the Request For Proposal (RFP) documents, and through a review of information in our files.

### **PROJECT DESCRIPTION**

Proposed for construction in the Zion Crossroads CPA are a series of water and sewer infrastructure additions and upgrades to be constructed in multiple phases. The proposed Phase One upgrades include the construction of approximately 23,000 lf of 10" diameter sewer force main, proposed to begin at the Department of Corrections Wastewater Treatment Plant – located at the southeast corner of the Correctional Center, and extending west and north around the facility, east down Route 250 and extending south down Route 15, and ending at about Mockingbird Lane. Also proposed for construction is approximately 21,000 lf of 12" diameter waterline, set to begin at the northwest corner of the Correctional Center and extend east down Route 250 and south down Route 15 to about Mockingbird Lane. The water and sewer lines will have roughly the same alignment.

A new water booster station has been proposed at the northeastern corner of the Correctional Facility which is expected to tie-in with the new water line. A new sewage pump station is proposed for construction northeast of the intersection of Route 15 and Mockingbird Lane, at roughly the southeast limits of the newly proposed water and sewer lines. Water storage capacity will be improved through the proposed construction of an elevated water storage tank, with the tank located just north of the intersection of Route 250 and Edgecomb Road or at the southwest corner of the intersection of Route 250 and Route 15.

We understand that the different construction elements of the project may be bid as separate projects. The first project would include construction of the new sewer force main and waterline. The second project would include construction of the water booster station. The third project would include the construction of the new sewage pump station and the fourth project would include construction of the elevated water storage tank.

We obtained the project information from the Phase 1 Sewer System site plans and Phase 1 Water System site plans by Dewberry dated September 2015, and review of the Request For Proposal (RFP) documents.

### **OBJECTIVE AND SCOPE OF SERVICES**

The objective of this study is to evaluate the subsurface conditions at the site, and provide geotechnical engineering recommendations regarding the design of foundations, earthwork, utilities and pavements for

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**Zion Crossroads Water and Sewer System Design Services**

the project. This study will be conducted under the supervision of a Professional Engineer registered in the Commonwealth of Virginia. Our proposed scope of services includes:

- Subsurface exploration including:
  - Total drilling depth of 1,940 lf is proposed. The drilling breakdown is as follows:
    - 52 test borings for the new sewer force main, waterline, and pipeline junction boxes to depths of about 10 to 20 ft, drilled on a roughly 500 ft spacing. Total drilling depth of 730 lf.
    - 4 test borings for the water booster station and associated station parking area pavements to depths of about 5 to 30 ft. Total drilling depth of 40 lf.
    - 3 test borings for the sewage pump station and associated station parking area pavements to depths of about 5 to 50 ft. Total drilling depth of 60 lf.
    - 4 test borings for the elevated water storage tank and associated parking area pavements to depths of about 5 to 50 ft. Total drilling depth of 110 lf.
  - 2 temporary water observation wells in selected borings to provide long-term groundwater level data
- Field engineering services, including:
  - Site reconnaissance
  - Boring layout
  - Traffic control
  - Private utility locating
  - Log the subsurface exploration
- Laboratory testing of materials encountered in the subsurface exploration including:
  - 78 Moisture Content, ASTM D2216
  - 26 Grain Size Distribution, ASTM D422 (and/or D1140),
  - 26 Liquid Limit, Plastic Limit, and Plasticity Index of Soils, ASTM D4318
  - 3 Moisture-Density (Proctor) Relationships, ASTM D698 (VTM 1)
  - 3 California Bearing Ratio Test, ASTM D1883 (VTM 8)
  - 8 Corrosion Potential Test Series (pH, Reduction-Oxidation Potential, Resistivity, Qualitative test for Sulfides)
- Geotechnical engineering analysis and report, including:
  - Estimated subsurface conditions and groundwater levels within the area explored based on data collected in the subsurface exploration
  - Foundation requirements including a net allowable soil bearing pressure, bearing grades and estimated settlements for shallow foundations
  - Recommendations for support of junction box structures.
  - Recommended Seismic Site Class in accordance with IBC 2012 for use in foundation design based on an extrapolation of data collected in the subsurface exploration
  - Evaluation of the shrink/swell potential of the soils encountered in the exploration.
  - Recommendations for floor slab support, including a recommended modulus of subgrade reaction for use in slab design for booster and pump station buildings
  - Earthwork recommendations for construction of load-bearing fill including an assessment of site soils for use as fill, subgrade preparation, and compaction criteria
  - Recommended soil parameters for use in the design of excavation sheeting and shoring for the booster station wet well, if needed.
  - Recommended flexible pavement sections

**Dewberry Engineers, Inc.**  
**Zion Crossroads Water and Sewer System Design Services**

- Recommended earth pressures, subdrainage and backfill requirements for walls below grade
- Comments on construction dewatering considerations
- Evaluation of rock excavation considerations including a sample definition for rock, if needed
- Construction considerations related to the implementation of our recommendations

### **ASSUMPTIONS**

We will drill the borings to the depths indicated or to prior auger or sampler refusal. Sampler refusal is defined as a Standard Penetration Test N value of 50 blows for 1 inch or less penetration. In the event shallow obstructions are encountered below grade which cannot be penetrated with ordinary soil drilling equipment, the obstructed borings will be offset and redrilled. Boring depths included in this proposal are estimated, and may be increased or decreased depending upon subsurface conditions encountered. Soil samples obtained in the subsurface exploration will be retained for a period of 45 days beyond the submission of our report unless other disposition is requested.

We have considered that Dewberry and/or the County will provide rights of entry and access to the site. Any permits or permission required to drill the borings will be provided by others at no cost to us. We assume no limitations on work hours. We have included a VDOT Land Use Permit for drilling in existing VDOT Right of Way areas.

Some borings near the Correctional Facility may be drilled in active parking areas. We assume you (your facility manager) will block areas around boring locations. If timely access to locations is not provided, drill crew stand-by charges will be incurred. These charges are not included in this proposal.

We have considered concrete coring will not be required at the boring locations.

This proposal considers boring locations will be accessible with ATV-mounted equipment assisted by a bulldozer to clear trails or build access roads. Our proposal includes 3 days of bulldozer rental to provide access for drilling equipment for the water and sewer line project. We have considered that the remaining projects will not require a bulldozer for site access. We have also considered that traffic control will be needed and have included 3 days of traffic control in our cost estimate for the water and sewer line project.

Progress of site work may be dependent upon weather and ground conditions, or other factors beyond our control. Some damage to the ground surface, trees, and bushes may result from drilling operations. We will attempt to reduce any such damage, but no restoration is included. Borings will be backfilled with drilling spoils. Excess spoils will be left on-site.

We have assumed the subsurface materials are free of environmental contaminants and that the materials we will encounter will not require personal protective equipment beyond OSHA Level D. We have also considered no special handling of samples will be required. If environmentally contaminated materials are encountered, Schnabel will not take responsibility for managing them. We can advise the Owner (responsible party) of alternatives under a separate assignment.

**Dewberry Engineers, Inc.**  
**Zion Crossroads Water and Sewer System Design Services**

We will locate borings in the field using a submeter accuracy GPS unit. Ground surface elevations at the boring locations will be estimated from topographic data provided by your office.

We will contact *Miss Utility* prior to mobilizing any drilling or excavating equipment to the project site. Miss Utility will contact the appropriate public utility companies (or their contract locators) to mark their utilities on the project site. Between 48 and 72 hours are typically required to clear utilities on a site. We will not be responsible for damage or disruption of utilities or other subsurface features not indicated to us in advance.

#### **CLIENT PROVIDED DATA**

The client will provide electronic versions of topographic site plans indicating existing conditions and the proposed construction. The client will also provide details of the proposed construction, including structural loads.

The public utility companies will not mark private utilities on a site. Private utilities include all utilities between the public utilities' metering devices and any existing facility on site; all storm and sanitary sewers on site; buried electric lines to light poles, signs or other electrical devices; irrigation lines; etc. Location of private utilities is the responsibility of the Property Owner according to the *Miss Utility Virginia Professional Excavators' Manual*. The Property Owner should provide plans showing the locations of all private utilities, mark the private utilities, or arrange for a private utility locator service. We have included the services of a private utility locator for the water and sewer line project.

#### **EXCLUSIONS**

Services not specifically identified above are not included in the scope of services under this agreement. The following services are not included in our proposed scope, but can be provided upon request:

- Environmental studies
- Liquefaction analyses
- Site-specific earthquake analyses
- Attendance at client review meetings and progress meetings
- Review of geotechnical aspects of the project plans and specifications
- Geotechnical and materials observation and testing during construction

We consider review of geotechnical aspects of project plans and specifications and geotechnical observation and testing during construction to be critical extensions of our engineering services. These services promote continuity from design through construction and limit construction delays and costs.

We will submit proposals for these services at your request.

**Dewberry Engineers, Inc.**  
**Zion Crossroads Water and Sewer System Design Services**

**LUMP SUM FEE**

Per your request, we have broken down the total fee for the project into four smaller projects based on the phases in which they may be constructed. Our lump sum fees for the proposed services are provided below.

<b>Project</b>	<b>Lump Sum Fee</b>
10-Inch Sewer Force Main and 12-Inch Waterline Improvements and associated soil laboratory testing and Geotechnical Engineering Report	\$47,200
Water Booster Station and associated soil laboratory testing and Geotechnical Engineering Report	\$5,825
Sewage Pump Station and associated soil laboratory testing and Geotechnical Engineering Report	\$6,300
Elevated Water Storage Tank and associated soil laboratory testing and Geotechnical Engineering Report	\$6,900
<b>TOTAL LUMP SUM FEE</b>	<b>\$66,225</b>

We will issue separate Geotechnical Engineering Reports for each of the four projects.

**PAYMENTS**

We agree to prepare invoices for our services and expenses in the form and with the supporting documentation Dewberry reasonably requires. We agree to submit invoices once a month by the 25<sup>th</sup> day of the month for consideration for payment the following month.

We agree that Dewberry will endeavor to pay Schnabel's invoices within 15 days after Owner pays Dewberry for Schnabel's services and expenses, but in no event later than 30 days after Owner pays Dewberry for Schnabel's services and expenses. However, Dewberry's withholding of payments to Schnabel for Schnabel's work shall not relieve Dewberry of their duty to pay Schnabel for services and expenses unless such services and expenses are disputed by the Owner.

**GENERAL**

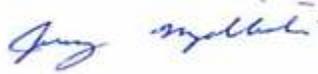
The Terms and Conditions of our Master Services Agreement for Professional Services dated June 4, 2013 will apply to our services. Consultation after submission of our report will be provided at your request at our standard hourly rates in effect at the time.

We understand you will issue a Task Order for these services in accordance with the Master Services Agreement. This proposal is valid for 90 days from the date shown.

**Dewberry Engineers, Inc.**  
**Zion Crossroads Water and Sewer System Design Services**

We appreciate the opportunity to submit our proposal for these services and are looking forward to working with you on this project. Please contact us if you have any questions regarding this proposal.

Sincerely,  
**SCHNABEL ENGINEERING CONSULTANTS, INC.**



Jeremy L. Mydlinski, PE  
Senior Associate

FJR:JLM

ACCEPTED BY: \_\_\_\_\_ **DEWBERRY ENGINEERS, INC.**

SIGNATURE: \_\_\_\_\_

PRINTED NAME: \_\_\_\_\_

TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_



September 28, 2015

Mr. Dave Maxwell, PE, LEED AP  
Dewberry  
4805 Lake Brook Drive, Suite 200  
Glen Allen, VA 23060  
Phone: (804) 205.3343  
Email: dmaxwell@dewberry.com

Project Reference: Phase 1 Sewer System, Zion Crossroads Water & Sewer System Design Services, Fluvanna County, Virginia

### **Scope**

Accumark will perform designating in compliance with CI/ASCE 38-02, *Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data*, hereinafter referred to as Standard 38-02.

### **Quality Level B (QL-B) Designation Standard Procedures**

Accumark personnel will contact the client, facility and utility owning agencies, as deemed appropriate, in order to request and acquire records of the existing underground facilities. Utility record information will be used as an aid in the identification of the number, identity, size and material of utilities located in the field. Records will not be used as a substitute for actual geophysical location unless the system cannot be verified electronically using industry standard techniques for this level of investigation.

Upon receiving notice to proceed, contact will be made with the client and/or their consultant, to acquire a digital copy of the base mapping for the project. Those drawings will be used in preparing designating field draft sheets and later for a base mapping background reference used in the QA/QC process.

Designators will draft field sheets that show the location, trend and configuration of utilities detected. Field sheets will show all scoped underground utility surface features and lines, and will be prepared with color to differentiate the utility systems. Utilities will be annotated with size and material where available. Project specific field notes will be shown as deemed appropriate.

The collection of designated utility markings (paint) will be collected by using conventional survey methods and equipment. If project requirements and site conditions allow, GPS equipment may be used at Accumark's discretion. Prior to Accumark survey personnel arriving onsite to locate the designated utility paint, the Client must provide survey control to the Accumark Project Manager for review and processing.

The density of the individual survey control points provided for Accumark's use should be dense enough that conventional surveying methods can be used without extra time and effort being spent to traverse between the existing control points. Should the distances between the existing survey control points provided by the Client or Client's survey consultant be too great, Accumark reserves the right to review and revise the fee for the utility paint locations.

Using the project's survey control, the utility paint will be surveyed, processed and plotted for internal review. If available, the Client should provide Accumark with a digital copy of the project's base mapping for use in the review process. A final field review will also be performed for this project. This quality assurance – quality control function (QA/ QC) involves a Senior Field Project Manager taking the cadded utility locations (review plots) to the project site. If project mapping has been made available, the review plots are prepared by plotting the designated utilities over the existing base mapping which has been faded for clarity. At the site (the final review) the Senior Field Project Manager will check the work of the designators, surveyors and cad personnel by comparing the plotted utilities against the record information, the field draft sheets and the utility paint as marked in the field.

### **CADD**

Accumark will provide the client a digital copy of the utility mapping in AutoCAD, Version 2013. Accumark will use its own company utility cad standards, unless the cad standards of the client or their consultant are provided and accepted at the time of this proposal preparation. The utility mapping can also be provided in a Microstation V8i digital file should the project requirements dictate.

### **Limitations**

This service will be provided with due diligence and in a manner consistent with standards of the subsurface utility mapping industry. Every reasonable effort will be made to locate all systems of interest whether indicated on records available to us or not. However, we do not guarantee that all existing utility systems can or will be detected. It may not be possible to detect utilities without prior knowledge, such as systems that are not depicted on records made available to us. Further, this service is not intended to detect non-utility structures such as, but not limited to: foundations, sanitary & storm systems, irrigation systems, septic systems, wells, tunnels, concrete or metal structures, or the true size and limits of subsurface utility vaults and manholes. Use of this service does not relieve interested parties from their responsibility to make required notifications prior to excavation.

The mapping services will reflect interpretation of electronic data collaborated with record and visual indications. Professional judgment will be used to reflect the underground utilities with the intended utmost accuracy and comprehensiveness. The results may be affected by numerous site conditions, including but not limited to utility materials, joint types, fittings, density of underground utilities, interference with above ground conductors and soil characteristics. There is no guarantee that all facilities can be found and shown.

Every reasonable attempt will be made to find, locate and map all active and abandoned underground utilities at Quality Level "B" of the Standard 38-02. All non-locatable utilities that are shown on record or learned about from verbal recollections or otherwise will be shown at Quality Levels "C" or "D" of the Standard 38-02. In addition, an effort will be made to learn the existence of non-locatable and non-recorded utilities that we may become aware of due to the presence of site features or otherwise. Those findings will be noted and provided to the client. The intent of the service is to map all underground utilities, included in the scope, active or abandoned, and Accumark carries professional liability insurance for possible claims related to engineering redesign, construction delays and contractor's work orders in the event we are responsible for a negligent error or omission. Our work does not relieve the users of our

drawings from contacting the one call protection office and we are typically not responsible for the damage of utilities caused by others due to the responsibilities borne on utility owning agencies and the one call system.

### **Project Limits**

Drawings were provided to Accumark on 9/15/15. Accumark limits will include a full quality level B designation and survey of the intersection of RT 15 & RT 250. Accumark will also designate and map the entire RT 250 project corridor from ROW to ROW. Accumark will designate and map utilities in and around the Women's Correctional Facility. Exact project limits will be decided on prior to Accumark beginning any work.

### **Project Schedule**

Office work will begin following receipt of written authorization to proceed. All field work will begin within 12 to 15 business days from authorization to proceed – weather permitting. Accumark anticipates 6-8 weeks of field work for this scope as well as 1-2 weeks of office work.

### **Fee Schedule**

<b>Utility Designation and Field Project Management:</b>	<b>\$37,285.00</b>
<b>Field Location (Survey):</b>	<b>\$12,930.00</b>
<b>CAD – Q/A – Q/C Review:</b>	<b>\$4,215.00</b>
<b>Total Cost QL- B Service:</b>	<b>\$54,430.00</b>

### **Agreement**

It is expected that this proposal in all or part will be incorporated into an agreement between Accumark and the client. Contractual terms and payment will be in compliance with the executed agreement.

### **Standard Terms of Payment**

Terms of payment are subject to modification by the Seller (Accumark). Buyer agrees to make prompt payment of invoices due in accordance with Seller's approved terms, whether for complete or partial services. Terms: Net 30 days from completion of work and receipt of invoice. If payment is contingent upon Buyer being paid by a "Third Party" for services, Accumark must be notified of the name and address of the "Third Party" prior to commencement of services. Buyer will submit invoices to the "Third Party" in a timely manner and Accumark will receive payments from Buyer within 15 days of Buyer being paid. If this is not the case then Accumark reserves the right to modify this clause to reflect a revised payment schedule.



**PROJECT AGREEMENT #1**  
**TERM AGREEMENT FOR PROFESSIONAL SERVICES**  
**ZION CROSSROADS WATER & SEWER SYSTEM DESIGN/SERVICES**

This Project Agreement #1 (the "Project Agreement") made this \_\_\_\_ day of \_\_\_\_\_, 201\_\_, between Fluvanna County, Virginia (the "County"), a political subdivision of the Commonwealth of Virginia, and Dewberry Engineers Inc. (the "Consultant"), a New York corporation authorized to transact business in Virginia, is an addendum to that TERM AGREEMENT FOR PROFESSIONAL SERVICES dated the \_\_\_\_ day of \_\_\_\_\_, 201\_\_ (including all exhibits thereto the "Agreement"). All defined terms in the Agreement shall have the same meaning in this Project Agreement.

Whereas, pursuant to the Agreement the County shall issue written task orders to the Contractor as services are needed;

Whereas, the County desires that the Contractor complete "The Preliminary Engineering Report (PER) Validation" as described in the Agreement and, without limitation, as specifically described in Section 1 of the Fee Proposal, on pages 3-4 (the "Task Order"); and

Whereas, the Consultant desires to accept the Task Order and complete all work and services necessary and related thereto.

For good and valuable consideration, the parties hereby agree as follows:

**ARTICLE I: THE AGREEMENT**

The foregoing recitations are incorporated by reference into this Project Agreement.

This Project Agreement is an addendum to and made a material part of the Agreement. The parties hereto agree that except as specifically and expressly modified hereby that Agreement remains in full force and effect and the provisions of the Agreement are incorporated herein and are a material part hereof.

**ARTICLE II: TASK ORDER**

Consultant shall provide all work and services necessary or desired to complete the Task Order consistent with all provisions of this Project Agreement and the Agreement.

The County's project manager for technical inquiries relating to this Project Agreement shall be:

Mr. Wayne Stephens  
 Director of Public Works  
 197 Main Street  
 Palmyra, VA 22963  
 Phone: (434) 591-1925  
 E-mail: [wstephens@fluvannacounty.org](mailto:wstephens@fluvannacounty.org)

Billing inquiries should be directed to Cyndi Toler, Purchasing Officer, whose contact information appears below in Article VI.

### **ARTICLE III: EXHIBITS AND RESOLVING CONFLICTS**

The rights and duties of the County and Consultant applicable to the County's projects under this Project Agreement are set forth in the following Agreement Documents:

- (i) All Project Agreements under this Agreement;
- (ii) this Agreement,
- (iii) the County of Fluvanna General Terms Conditions and Instructions to Bidders and Contractors, being pages 10 to 22 of Exhibit 1 hereto;
- (iv) the Fee Proposal, being Exhibit 3 hereto;
- (v) the Proposal, being Exhibit 2 hereto; and
- (vi) the RFP, being Exhibit 1 hereto.

Whenever possible, the terms of the above Agreement Documents shall be read together, however in the event of a conflict, the order of preference above shall govern which Agreement Document will control. In other words, (i) shall control over (ii) to (vi) above, (ii) shall control over (iii) to (vi) above, etc.

### **ARTICLE IV: FEES**

The Contractor shall receive a flat fee of TWENTY-TWO THOUSAND FIVE HUNDRED FIFTY and NO/100 (\$22,550.00); which shall be payable by the County in installments of FOUR THOUSAND FIVE HUNDRED TEN and NO/100 (\$4,510.00) upon proper invoice by the Consultant as described herein. The Contractor shall submit invoices to the County of Fluvanna for services on the Task Order when the Task Order is 20%, 40%, 60%, 80% and finally complete. The invoice shall describe the services rendered to date with specificity. The Contractor will be paid within forty-five (45) days of receipt of a valid invoice following final acceptance of all work by the County of Fluvanna." No invoice may be provided by the Contractor to the County until the items or services purchased have been delivered to, inspected by and accepted by the County. In no event shall the fees due under this Project Agreement exceed \$22,550.00.

The flat fee includes all fees, costs and charges of any kind to perform all the services and work, including supplying at its own cost and expense any necessary tools, equipment or materials, necessary or desirable for completion of the task specified.

### **ARTICLE V: TERM**

Contractor shall with due diligence and dispatch assiduously pursue this Task Order to completion, but in any event such task order shall be completed to the sole satisfaction of the County on or before the \_\_\_\_ day of \_\_\_\_\_, 201\_.

### **ARTICLE VI: MISCELLANEOUS**

As appropriate to the context, the singular will include the plural and vice versa, and reference to one gender will include the others. This Project Agreement may be executed in one or more counterparts, each of which will be considered the Project Agreement for all purposes of proof. In addition to allowing electronic signatures upon an electronic copy of this Project

Agreement, as provided by Virginia law, facsimile signatures upon any signature page will be considered to be original signatures. This Project Agreement contains the entire understanding of the parties with respect to the subject matter hereof and is to be modified only by a writing signed by the parties to this Project Agreement. This Project Agreement will be binding upon and inure to the benefit of the respective parties and their successors. This Project Agreement is not assignable by either party, except by operation of law. The legal address for the County and for the Consultant and the addresses for delivery of Notices and other documents related to the administration of this Project Agreement are as follows:

County

ATTN: Cyndi Toler, Purchasing Officer  
Fluvanna County  
P.O. Box 540  
Palmyra, VA 22963  
Telephone (434) 591-1930  
FAX (434) 591-1911

Consultant

Dewberry Engineers Inc.  
ATTN: David S. Maxwell, Vice President  
4805 Lake Brook Drive  
Suite 200  
Glen Allen, VA 23060  
Telephone (804) 290-7957  
FAX (804) 290-7928

Any party may substitute another address for the one set forth above by giving a notice in the manner required. Any notice given by mail will be deemed to be received on the fifth (5<sup>th</sup>) day after deposit in the United States mail. Any notice given by hand will be deemed to be received when delivered. Notice by courier will be deemed to have been received on the date shown on any certificate of delivery.

**In witness whereof the undersigned duly authorized representatives have executed this Agreement on the dates set forth beside their respective signatures.**

ARCHITECT/ENGINEER	County:
Dewberry Engineers Inc.	Fluvanna County
By: _____ Date: _____	By: _____ Date: _____
Name: _____	Name: _____
Title: _____	Title: _____
Approved as to form:	

\_\_\_\_\_  
Fluvanna County Attorney

**PROJECT AGREEMENT #2**  
**TERM AGREEMENT FOR PROFESSIONAL SERVICES**  
**ZION CROSSROADS WATER & SEWER SYSTEM DESIGN/SERVICES**

This Project Agreement #2 (the Project Agreement”) made this \_\_\_\_ day of \_\_\_\_\_, 201\_\_ , between Fluvanna County, Virginia (the “County”), a political subdivision of the Commonwealth of Virginia, and Dewberry Engineers Inc. (the “Consultant”), a New York corporation authorized to transact business in Virginia, is an addendum to that TERM AGREEMENT FOR PROFESSIONAL SERVICES dated the \_\_\_\_ day of \_\_\_\_\_, 201\_\_ (including all exhibits and prior addenda thereto the “Agreement”). All defined terms in the Agreement shall have the same meaning as in this Project Agreement except for terms specifically defined herein.

Whereas, pursuant to the Agreement the County shall issue written task orders to the Contractor as services are needed;

Whereas, the County desires that the Contractor complete “Geotechnical Engineering for Water and Sewer Lines” as described in the Agreement and, without limitation, as specifically described in Section 2 of the Fee Proposal, on pages 4-5 (the “Task Order”); and

Whereas, the Consultant desires to accept the Task Order and complete all work and services necessary and related thereto.

For good and valuable consideration, the parties hereby agree as follows:

**ARTICLE I: THE AGREEMENT**

The foregoing recitations are incorporated by reference into this Project Agreement.

This Project Agreement is an addendum to and made a material part of the Agreement. The parties hereto agree that except as specifically and expressly modified hereby that Agreement remains in full force and effect and the provisions of the Agreement are incorporated herein and are a material part hereof.

**ARTICLE II: TASK ORDER**

Consultant shall provide all work and services necessary or desired to complete the Task Order consistent with all provisions of this Project Agreement and the Agreement.

The County’s project manager for technical inquiries relating to this Project Agreement shall be:

Mr. Wayne Stephens  
 Director of Public Works  
 197 Main Street  
 Palmyra, VA 22963  
 Phone: (434) 591-1925  
 E-mail: [wstephens@fluvannacounty.org](mailto:wstephens@fluvannacounty.org)

Billing inquiries should be directed to Cyndi Toler, Purchasing Officer, whose contact information appears below in Article VI.

### **ARTICLE III: EXHIBITS AND RESOLVING CONFLICTS**

The rights and duties of the County and Consultant applicable to the County's projects under this Project Agreement are set forth in the following Agreement Documents:

- (i) All Project Agreements under this Agreement;
- (ii) this Agreement,
- (iii) the County of Fluvanna General Terms Conditions and Instructions to Bidders and Contractors, being pages 10 to 22 of Exhibit 1 hereto;
- (iv) the Fee Proposal, being Exhibit 3 hereto;
- (v) the Proposal, being Exhibit 2 hereto; and
- (vi) the RFP, being Exhibit 1 hereto.

Whenever possible, the terms of the above Agreement Documents shall be read together, however in the event of a conflict, the order of preference above shall govern which Agreement Document will control. In other words, (i) shall control over (ii) to (vi) above, (ii) shall control over (iii) to (vi) above, etc.

### **ARTICLE IV: FEES**

The Contractor shall receive a flat fee of FORTY-NINE THOUSAND EIGHT HUNDRED and NO/100 (\$49,800.00); which shall be payable by the County in installments of NINE THOUSAND NINE HUNDRED SIXTY and NO/100 (\$9,960.00) upon proper invoice by the Consultant as described herein. The Contractor shall submit invoices to the County of Fluvanna for services on the Task Order when the Task Order is 20%, 40%, 60%, 80% and finally complete. The invoice shall describe the services rendered to date with specificity. The Contractor will be paid within forty-five (45) days of receipt of a valid invoice following final acceptance of all work by the County of Fluvanna." No invoice may be provided by the Contractor to the County until the items or services purchased have been delivered to, inspected by and accepted by the County. In no event shall the fees due under this Project Agreement exceed \$49,800.00.

The flat fee includes all fees, costs and charges of any kind to perform all the services and work, including supplying at its own cost and expense any necessary tools, equipment or materials, necessary or desirable for completion of the task specified.

### **ARTICLE V: TERM**

Contractor shall with due diligence and dispatch assiduously pursue this Task Order to completion, but in any event such task order shall be completed to the sole satisfaction of the County on or before the \_\_\_\_ day of \_\_\_\_\_, 201\_.

### **ARTICLE VI: MISCELLANEOUS**

As appropriate to the context, the singular will include the plural and vice versa, and reference to one gender will include the others. This Project Agreement may be executed in one or more counterparts, each of which will be considered the Project Agreement for all purposes of

proof. In addition to allowing electronic signatures upon an electronic copy of this Project Agreement, as provided by Virginia law, facsimile signatures upon any signature page will be considered to be original signatures. This Project Agreement contains the entire understanding of the parties with respect to the subject matter hereof and is to be modified only by a writing signed by the parties to this Project Agreement. This Project Agreement will be binding upon and inure to the benefit of the respective parties and their successors. This Project Agreement is not assignable by either party, except by operation of law. The legal address for the County and for the Consultant and the addresses for delivery of Notices and other documents related to the administration of this Project Agreement are as follows:

County

ATTN: Cyndi Toler, Purchasing Officer  
Fluvanna County  
P.O. Box 540  
Palmyra, VA 22963  
Telephone (434) 591-1930  
FAX (434) 591-1911

Consultant

Dewberry Engineers Inc.  
ATTN: David S. Maxwell, Vice President  
4805 Lake Brook Drive  
Suite 200  
Glen Allen, VA 23060  
Telephone (804) 290-7957  
FAX (804) 290-7928

Any party may substitute another address for the one set forth above by giving a notice in the manner required. Any notice given by mail will be deemed to be received on the fifth (5<sup>th</sup>) day after deposit in the United States mail. Any notice given by hand will be deemed to be received when delivered. Notice by courier will be deemed to have been received on the date shown on any certificate of delivery.

**In witness whereof the undersigned duly authorized representatives have executed this Agreement on the dates set forth beside their respective signatures.**

ARCHITECT/ENGINEER

Dewberry Engineers Inc.

By: \_\_\_\_\_ Date: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Approved as to form:

County:

Fluvanna County

By: \_\_\_\_\_ Date: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

\_\_\_\_\_  
Fluvanna County Attorney

**PROJECT AGREEMENT #3**  
**TERM AGREEMENT FOR PROFESSIONAL SERVICES**  
**ZION CROSSROADS WATER & SEWER SYSTEM DESIGN/SERVICES**

This Project Agreement #3 (the Project Agreement”) made this \_\_\_\_ day of \_\_\_\_\_, 201\_\_ , between Fluvanna County, Virginia (the “County”), a political subdivision of the Commonwealth of Virginia, and Dewberry Engineers Inc. (the “Consultant”), a New York corporation authorized to transact business in Virginia, is an addendum to that TERM AGREEMENT FOR PROFESSIONAL SERVICES dated the \_\_\_\_ day of \_\_\_\_\_, 201\_\_ (including all exhibits and prior addenda thereto the “Agreement”). All defined terms in the Agreement shall have the same meaning as in this Project Agreement except for terms specifically defined herein.

Whereas, pursuant to the Agreement the County shall issue written task orders to the Contractor as services are needed;

Whereas, the County desires that the Contractor complete “Environmental Investigation and Permitting Services – Entire Project” as described in the Agreement and, without limitation, as specifically described in Section 3 of the Fee Proposal, on pages 5-6 (the “Task Order”); and

Whereas, the Consultant desires to accept the Task Order and complete all work and services necessary and related thereto.

For good and valuable consideration, the parties hereby agree as follows:

**ARTICLE I: THE AGREEMENT**

The foregoing recitations are incorporated by reference into this Project Agreement.

This Project Agreement is an addendum to and made a material part of the Agreement. The parties hereto agree that except as specifically and expressly modified hereby that Agreement remains in full force and effect and the provisions of the Agreement are incorporated herein and are a material part hereof.

**ARTICLE II: TASK ORDER**

Consultant shall provide all work and services necessary or desired to complete the Task Order consistent with all provisions of this Project Agreement and the Agreement.

The County’s project manager for technical inquiries relating to this Project Agreement shall be:

Mr. Wayne Stephens  
 Director of Public Works  
 197 Main Street  
 Palmyra, VA 22963  
 Phone: (434) 591-1925  
 E-mail: [wstephens@fluvannacounty.org](mailto:wstephens@fluvannacounty.org)

Billing inquiries should be directed to Cyndi Toler, Purchasing Officer, whose contact information appears below in Article VI.

### **ARTICLE III: EXHIBITS AND RESOLVING CONFLICTS**

The rights and duties of the County and Consultant applicable to the County's projects under this Project Agreement are set forth in the following Agreement Documents:

- (i) All Project Agreements under this Agreement;
- (ii) this Agreement,
- (iii) the County of Fluvanna General Terms Conditions and Instructions to Bidders and Contractors, being pages 10 to 22 of Exhibit 1 hereto;
- (iv) the Fee Proposal, being Exhibit 3 hereto;
- (v) the Proposal, being Exhibit 2 hereto; and
- (vi) the RFP, being Exhibit 1 hereto.

Whenever possible, the terms of the above Agreement Documents shall be read together, however in the event of a conflict, the order of preference above shall govern which Agreement Document will control. In other words, (i) shall control over (ii) to (vi) above, (ii) shall control over (iii) to (vi) above, etc.

### **ARTICLE IV: FEES**

The Contractor shall receive a flat fee of TWENTY-FIVE THOUSAND TWO-HUNDRED TEN and NO/100 (\$25,210.00); which shall be payable by the County in installments of FIVE THOUSAND FORTY-TWO and NO/100 (\$5,042.00) upon proper invoice by the Consultant as described herein. The Contractor shall submit invoices to the County of Fluvanna for services on the Task Order when the Task Order is 20%, 40%, 60%, 80% and finally complete. The invoice shall describe the services rendered to date with specificity. The Contractor will be paid within forty-five (45) days of receipt of a valid invoice following final acceptance of all work by the County of Fluvanna." No invoice may be provided by the Contractor to the County until the items or services purchased have been delivered to, inspected by and accepted by the County. In no event shall the fees due under this Project Agreement exceed \$25,210.00.

The flat fee includes all fees, costs and charges of any kind to perform all the services and work, including supplying at its own cost and expense any necessary tools, equipment or materials, necessary or desirable for completion of the task specified.

### **ARTICLE V: TERM**

Contractor shall with due diligence and dispatch assiduously pursue this Task Order to completion, but in any event such task order shall be completed to the sole satisfaction of the County on or before the \_\_\_\_ day of \_\_\_\_\_, 201\_.

### **ARTICLE VI: MISCELLANEOUS**

As appropriate to the context, the singular will include the plural and vice versa, and reference to one gender will include the others. This Project Agreement may be executed in one or more counterparts, each of which will be considered the Project Agreement for all purposes of

proof. In addition to allowing electronic signatures upon an electronic copy of this Project Agreement, as provided by Virginia law, facsimile signatures upon any signature page will be considered to be original signatures. This Project Agreement contains the entire understanding of the parties with respect to the subject matter hereof and is to be modified only by a writing signed by the parties to this Project Agreement. This Project Agreement will be binding upon and inure to the benefit of the respective parties and their successors. This Project Agreement is not assignable by either party, except by operation of law. The legal address for the County and for the Consultant and the addresses for delivery of Notices and other documents related to the administration of this Project Agreement are as follows:

County

ATTN: Cyndi Toler, Purchasing Officer  
Fluvanna County  
P.O. Box 540  
Palmyra, VA 22963  
Telephone (434) 591-1930  
FAX (434) 591-1911

Consultant

Dewberry Engineers Inc.  
ATTN: David S. Maxwell, Vice President  
4805 Lake Brook Drive  
Suite 200  
Glen Allen, VA 23060  
Telephone (804) 290-7957  
FAX (804) 290-7928

Any party may substitute another address for the one set forth above by giving a notice in the manner required. Any notice given by mail will be deemed to be received on the fifth (5<sup>th</sup>) day after deposit in the United States mail. Any notice given by hand will be deemed to be received when delivered. Notice by courier will be deemed to have been received on the date shown on any certificate of delivery.

**In witness whereof the undersigned duly authorized representatives have executed this Agreement on the dates set forth beside their respective signatures.**

ARCHITECT/ENGINEER		County:	
Dewberry Engineers Inc.		Fluvanna County	
By: _____	Date: _____	By: _____	Date: _____
Name: _____		Name: _____	
Title: _____		Title: _____	
Approved as to form:			

\_\_\_\_\_  
Fluvanna County Attorney

**PROJECT AGREEMENT #4**  
**TERM AGREEMENT FOR PROFESSIONAL SERVICES**  
**ZION CROSSROADS WATER & SEWER SYSTEM DESIGN/SERVICES**

This Project Agreement #4 (the Project Agreement”) made this \_\_\_\_ day of \_\_\_\_\_, 201\_\_ , between Fluvanna County, Virginia (the “County”), a political subdivision of the Commonwealth of Virginia, and Dewberry Engineers Inc. (the “Consultant”), a New York corporation authorized to transact business in Virginia, is an addendum to that TERM AGREEMENT FOR PROFESSIONAL SERVICES dated the \_\_\_\_ day of \_\_\_\_\_, 201\_\_ (including all exhibits and prior addenda thereto the “Agreement”). All defined terms in the Agreement shall have the same meaning as in this Project Agreement except for terms specifically defined herein.

Whereas, pursuant to the Agreement the County shall issue written task orders to the Contractor as services are needed;

Whereas, the County desires that the Contractor complete “Utility Designation along Route 250 and at the Women’s Prison” as described in the Agreement and, without limitation, as specifically described in Section 4 of the Fee Proposal, on page 7 (the “Task Order”); and

Whereas, the Consultant desires to accept the Task Order and complete all work and services necessary and related thereto.

For good and valuable consideration, the parties hereby agree as follows:

**ARTICLE I: THE AGREEMENT**

The foregoing recitations are incorporated by reference into this Project Agreement.

This Project Agreement is an addendum to and made a material part of the Agreement. The parties hereto agree that except as specifically and expressly modified hereby that Agreement remains in full force and effect and the provisions of the Agreement are incorporated herein and are a material part hereof.

**ARTICLE II: TASK ORDER**

Consultant shall provide all work and services necessary or desired to complete the Task Order consistent with all provisions of this Project Agreement and the Agreement.

The County’s project manager for technical inquiries relating to this Project Agreement shall be:

Mr. Wayne Stephens  
 Director of Public Works  
 197 Main Street  
 Palmyra, VA 22963  
 Phone: (434) 591-1925  
 E-mail: [wstephens@fluvannacounty.org](mailto:wstephens@fluvannacounty.org)

Billing inquiries should be directed to Cyndi Toler, Purchasing Officer, whose contact information appears below in Article VI.

### **ARTICLE III: EXHIBITS AND RESOLVING CONFLICTS**

The rights and duties of the County and Consultant applicable to the County's projects under this Project Agreement are set forth in the following Agreement Documents:

- (i) All Project Agreements under this Agreement;
- (ii) this Agreement,
- (iii) the County of Fluvanna General Terms Conditions and Instructions to Bidders and Contractors, being pages 10 to 22 of Exhibit 1 hereto;
- (iv) the Fee Proposal, being Exhibit 3 hereto;
- (v) the Proposal, being Exhibit 2 hereto; and
- (vi) the RFP, being Exhibit 1 hereto.

Whenever possible, the terms of the above Agreement Documents shall be read together, however in the event of a conflict, the order of preference above shall govern which Agreement Document will control. In other words, (i) shall control over (ii) to (vi) above, (ii) shall control over (iii) to (vi) above, etc.

### **ARTICLE IV: FEES**

The Contractor shall receive a flat fee of FIFTY-SEVEN THOUSAND FIVE-HUNDRED THIRTY and NO/100 (\$57,530.00); which shall be payable by the County in installments of ELEVEN THOUSAND FIVE-HUNDRED SIX and NO/100 (\$11,506.00) upon proper invoice by the Consultant as described herein. The Contractor shall submit invoices to the County of Fluvanna for services on the Task Order when the Task Order is 20%, 40%, 60%, 80% and finally complete. The invoice shall describe the services rendered to date with specificity. The Contractor will be paid within forty-five (45) days of receipt of a valid invoice following final acceptance of all work by the County of Fluvanna." No invoice may be provided by the Contractor to the County until the items or services purchased have been delivered to, inspected by and accepted by the County. In no event shall the fees due under this Project Agreement exceed \$57,530.00.

The flat fee includes all fees, costs and charges of any kind to perform all the services and work, including supplying at its own cost and expense any necessary tools, equipment or materials, necessary or desirable for completion of the task specified.

### **ARTICLE V: TERM**

Contractor shall with due diligence and dispatch assiduously pursue this Task Order to completion, but in any event such task order shall be completed to the sole satisfaction of the County on or before the \_\_\_\_ day of \_\_\_\_\_, 201\_.

### **ARTICLE VI: MISCELLANEOUS**

As appropriate to the context, the singular will include the plural and vice versa, and reference to one gender will include the others. This Project Agreement may be executed in one or more counterparts, each of which will be considered the Project Agreement for all purposes of

proof. In addition to allowing electronic signatures upon an electronic copy of this Project Agreement, as provided by Virginia law, facsimile signatures upon any signature page will be considered to be original signatures. This Project Agreement contains the entire understanding of the parties with respect to the subject matter hereof and is to be modified only by a writing signed by the parties to this Project Agreement. This Project Agreement will be binding upon and inure to the benefit of the respective parties and their successors. This Project Agreement is not assignable by either party, except by operation of law. The legal address for the County and for the Consultant and the addresses for delivery of Notices and other documents related to the administration of this Project Agreement are as follows:

County

ATTN: Cyndi Toler, Purchasing Officer  
Fluvanna County  
P.O. Box 540  
Palmyra, VA 22963  
Telephone (434) 591-1930  
FAX (434) 591-1911

Consultant

Dewberry Engineers Inc.  
ATTN: David S. Maxwell, Vice President  
4805 Lake Brook Drive  
Suite 200  
Glen Allen, VA 23060  
Telephone (804) 290-7957  
FAX (804) 290-7928

Any party may substitute another address for the one set forth above by giving a notice in the manner required. Any notice given by mail will be deemed to be received on the fifth (5<sup>th</sup>) day after deposit in the United States mail. Any notice given by hand will be deemed to be received when delivered. Notice by courier will be deemed to have been received on the date shown on any certificate of delivery.

**In witness whereof the undersigned duly authorized representatives have executed this Agreement on the dates set forth beside their respective signatures.**

ARCHITECT/ENGINEER	County:
Dewberry Engineers Inc.	Fluvanna County
By: _____ Date: _____	By: _____ Date: _____
Name: _____	Name: _____
Title: _____	Title: _____
Approved as to form:	

\_\_\_\_\_  
Fluvanna County Attorney

**PROJECT AGREEMENT #5**  
**TERM AGREEMENT FOR PROFESSIONAL SERVICES**  
**ZION CROSSROADS WATER & SEWER SYSTEM DESIGN/SERVICES**

This Project Agreement #5 (the Project Agreement”) made this \_\_\_\_ day of \_\_\_\_\_, 201\_\_ , between Fluvanna County, Virginia (the “County”), a political subdivision of the Commonwealth of Virginia, and Dewberry Engineers Inc. (the “Consultant”), a New York corporation authorized to transact business in Virginia, is an addendum to that TERM AGREEMENT FOR PROFESSIONAL SERVICES dated the \_\_\_\_ day of \_\_\_\_\_, 201\_\_ (including all exhibits and prior addenda thereto the “Agreement”). All defined terms in the Agreement shall have the same meaning as in this Project Agreement except for terms specifically defined herein.

Whereas, pursuant to the Agreement the County shall issue written task orders to the Contractor as services are needed;

Whereas, the County desires that the Contractor complete “Water and Sewer Lines – Preliminary Design (through 65%)” as described in the Agreement and, without limitation, as specifically described in Section 5 of the Fee Proposal, on page 7-9 (the “Task Order”); and

Whereas, the Consultant desires to accept the Task Order and complete all work and services necessary and related thereto.

For good and valuable consideration, the parties hereby agree as follows:

**ARTICLE I: THE AGREEMENT**

The foregoing recitations are incorporated by reference into this Project Agreement.

This Project Agreement is an addendum to and made a material part of the Agreement. The parties hereto agree that except as specifically and expressly modified hereby that Agreement remains in full force and effect and the provisions of the Agreement are incorporated herein and are a material part hereof.

**ARTICLE II: TASK ORDER**

Consultant shall provide all work and services necessary or desired to complete the Task Order consistent with all provisions of this Project Agreement and the Agreement.

The County’s project manager for technical inquiries relating to this Project Agreement shall be:

Mr. Wayne Stephens  
 Director of Public Works  
 197 Main Street  
 Palmyra, VA 22963  
 Phone: (434) 591-1925  
 E-mail: [wstephens@fluvannacounty.org](mailto:wstephens@fluvannacounty.org)

Billing inquiries should be directed to Cyndi Toler, Purchasing Officer, whose contact information appears below in Article VI.

### **ARTICLE III: EXHIBITS AND RESOLVING CONFLICTS**

The rights and duties of the County and Consultant applicable to the County's projects under this Project Agreement are set forth in the following Agreement Documents:

- (i) All Project Agreements under this Agreement;
- (ii) this Agreement,
- (iii) the County of Fluvanna General Terms Conditions and Instructions to Bidders and Contractors, being pages 10 to 22 of Exhibit 1 hereto;
- (iv) the Fee Proposal, being Exhibit 3 hereto;
- (v) the Proposal, being Exhibit 2 hereto; and
- (vi) the RFP, being Exhibit 1 hereto.

Whenever possible, the terms of the above Agreement Documents shall be read together, however in the event of a conflict, the order of preference above shall govern which Agreement Document will control. In other words, (i) shall control over (ii) to (vi) above, (ii) shall control over (iii) to (vi) above, etc.

### **ARTICLE IV: FEES**

The Contractor shall receive a flat fee of SIXTY-FOUR THOUSAND THREE-HUNDRED EIGHTY and NO/100 (\$64,380.00); which shall be payable by the County in installments of TWELVE THOUSAND EIGHT-HUNDRED SEVENTY-SIX and NO/100 (\$12,876.00) upon proper invoice by the Consultant as described herein. The Contractor shall submit invoices to the County of Fluvanna for services on the Task Order when the Task Order is 20%, 40%, 60%, 80% and finally complete. The invoice shall describe the services rendered to date with specificity. The Contractor will be paid within forty-five (45) days of receipt of a valid invoice following final acceptance of all work by the County of Fluvanna." No invoice may be provided by the Contractor to the County until the items or services purchased have been delivered to, inspected by and accepted by the County. In no event shall the fees due under this Project Agreement exceed \$64,380.00.

The flat fee includes all fees, costs and charges of any kind to perform all the services and work, including supplying at its own cost and expense any necessary tools, equipment or materials, necessary or desirable for completion of the task specified.

### **ARTICLE V: TERM**

Contractor shall with due diligence and dispatch assiduously pursue this Task Order to completion, but in any event such task order shall be completed to the sole satisfaction of the County on or before the \_\_\_\_ day of \_\_\_\_\_, 201\_.

### **ARTICLE VI: MISCELLANEOUS**

As appropriate to the context, the singular will include the plural and vice versa, and reference to one gender will include the others. This Project Agreement may be executed in one or more counterparts, each of which will be considered the Project Agreement for all purposes of

proof. In addition to allowing electronic signatures upon an electronic copy of this Project Agreement, as provided by Virginia law, facsimile signatures upon any signature page will be considered to be original signatures. This Project Agreement contains the entire understanding of the parties with respect to the subject matter hereof and is to be modified only by a writing signed by the parties to this Project Agreement. This Project Agreement will be binding upon and inure to the benefit of the respective parties and their successors. This Project Agreement is not assignable by either party, except by operation of law. The legal address for the County and for the Consultant and the addresses for delivery of Notices and other documents related to the administration of this Project Agreement are as follows:

County

ATTN: Cyndi Toler, Purchasing Officer  
Fluvanna County  
P.O. Box 540  
Palmyra, VA 22963  
Telephone (434) 591-1930  
FAX (434) 591-1911

Consultant

Dewberry Engineers Inc.  
ATTN: David S. Maxwell, Vice President  
4805 Lake Brook Drive  
Suite 200  
Glen Allen, VA 23060  
Telephone (804) 290-7957  
FAX (804) 290-7928

Any party may substitute another address for the one set forth above by giving a notice in the manner required. Any notice given by mail will be deemed to be received on the fifth (5<sup>th</sup>) day after deposit in the United States mail. Any notice given by hand will be deemed to be received when delivered. Notice by courier will be deemed to have been received on the date shown on any certificate of delivery.

**In witness whereof the undersigned duly authorized representatives have executed this Agreement on the dates set forth beside their respective signatures.**

ARCHITECT/ENGINEER

Dewberry Engineers Inc.

By: \_\_\_\_\_ Date: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Approved as to form:

County:

Fluvanna County

By: \_\_\_\_\_ Date: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

\_\_\_\_\_  
Fluvanna County Attorney

**PROJECT AGREEMENT #6**  
**TERM AGREEMENT FOR PROFESSIONAL SERVICES**  
**ZION CROSSROADS WATER & SEWER SYSTEM DESIGN/SERVICES**

This Project Agreement #6 (the "Project Agreement") made this \_\_\_\_ day of \_\_\_\_\_, 201\_\_ , between Fluvanna County, Virginia (the "County"), a political subdivision of the Commonwealth of Virginia, and Dewberry Engineers Inc. (the "Consultant"), a New York corporation authorized to transact business in Virginia, is an addendum to that TERM AGREEMENT FOR PROFESSIONAL SERVICES dated the \_\_\_\_ day of \_\_\_\_\_, 201\_\_ (including all exhibits and prior addenda thereto the "Agreement"). All defined terms in the Agreement shall have the same meaning as in this Project Agreement except for terms specifically defined herein.

Whereas, pursuant to the Agreement the County shall issue written task orders to the Contractor as services are needed;

Whereas, the County desires that the Contractor complete "Elevated Water Storage Tank - Design" as described in the Agreement and, without limitation, as specifically described in Section 8 of the Fee Proposal, on pages 11-12 (the "Task Order"); and

Whereas, the Consultant desires to accept the Task Order and complete all work and services necessary and related thereto.

For good and valuable consideration, the parties hereby agree as follows:

**ARTICLE I: THE AGREEMENT**

The foregoing recitations are incorporated by reference into this Project Agreement.

This Project Agreement is an addendum to and made a material part of the Agreement. The parties hereto agree that except as specifically and expressly modified hereby that Agreement remains in full force and effect and the provisions of the Agreement are incorporated herein and are a material part hereof.

**ARTICLE II: TASK ORDER**

Consultant shall provide all work and services necessary or desired to complete the Task Order consistent with all provisions of this Project Agreement and the Agreement.

The County's project manager for technical inquiries relating to this Project Agreement shall be:

Mr. Wayne Stephens  
 Director of Public Works  
 197 Main Street  
 Palmyra, VA 22963  
 Phone: (434) 591-1925  
 E-mail: [wstephens@fluvannacounty.org](mailto:wstephens@fluvannacounty.org)

Billing inquiries should be directed to Cyndi Toler, Purchasing Officer, whose contact information appears below in Article VI.

### **ARTICLE III: EXHIBITS AND RESOLVING CONFLICTS**

The rights and duties of the County and Consultant applicable to the County's projects under this Project Agreement are set forth in the following Agreement Documents:

- (i) All Project Agreements under this Agreement;
- (ii) this Agreement,
- (iii) the County of Fluvanna General Terms Conditions and Instructions to Bidders and Contractors, being pages 10 to 22 of Exhibit 1 hereto;
- (iv) the Fee Proposal, being Exhibit 3 hereto;
- (v) the Proposal, being Exhibit 2 hereto; and
- (vi) the RFP, being Exhibit 1 hereto.

Whenever possible, the terms of the above Agreement Documents shall be read together, however in the event of a conflict, the order of preference above shall govern which Agreement Document will control. In other words, (i) shall control over (ii) to (vi) above, (ii) shall control over (iii) to (vi) above, etc.

### **ARTICLE IV: FEES**

The Contractor shall receive a flat fee of EIGHTY-SIX THOUSAND EIGHT-HUNDRED SIXTY-FIVE and NO/100 (\$86,865.00); which shall be payable by the County in installments of SEVENTEEN THOUSAND THREE-HUNDRED SEVENTY-THREE and NO/100 (\$17,373.00) upon proper invoice by the Consultant as described herein. The Contractor shall submit invoices to the County of Fluvanna for services on the Task Order when the Task Order is 20%, 40%, 60%, 80% and finally complete. The invoice shall describe the services rendered to date with specificity. The Contractor will be paid within forty-five (45) days of receipt of a valid invoice following final acceptance of all work by the County of Fluvanna." No invoice may be provided by the Contractor to the County until the items or services purchased have been delivered to, inspected by and accepted by the County. In no event shall the fees due under this Project Agreement exceed \$86,865.00.

The flat fee includes all fees, costs and charges of any kind to perform all the services and work, including supplying at its own cost and expense any necessary tools, equipment or materials, necessary or desirable for completion of the task specified.

### **ARTICLE V: TERM**

Contractor shall with due diligence and dispatch assiduously pursue this Task Order to completion, but in any event such task order shall be completed to the sole satisfaction of the County on or before the \_\_\_\_ day of \_\_\_\_\_, 201\_.

### **ARTICLE VI: MISCELLANEOUS**

As appropriate to the context, the singular will include the plural and vice versa, and reference to one gender will include the others. This Project Agreement may be executed in one or more counterparts, each of which will be considered the Project Agreement for all purposes of

proof. In addition to allowing electronic signatures upon an electronic copy of this Project Agreement, as provided by Virginia law, facsimile signatures upon any signature page will be considered to be original signatures. This Project Agreement contains the entire understanding of the parties with respect to the subject matter hereof and is to be modified only by a writing signed by the parties to this Project Agreement. This Project Agreement will be binding upon and inure to the benefit of the respective parties and their successors. This Project Agreement is not assignable by either party, except by operation of law. The legal address for the County and for the Consultant and the addresses for delivery of Notices and other documents related to the administration of this Project Agreement are as follows:

County

ATTN: Cyndi Toler, Purchasing Officer  
Fluvanna County  
P.O. Box 540  
Palmyra, VA 22963  
Telephone (434) 591-1930  
FAX (434) 591-1911

Consultant

Dewberry Engineers Inc.  
ATTN: David S. Maxwell, Vice President  
4805 Lake Brook Drive  
Suite 200  
Glen Allen, VA 23060  
Telephone (804) 290-7957  
FAX (804) 290-7928

Any party may substitute another address for the one set forth above by giving a notice in the manner required. Any notice given by mail will be deemed to be received on the fifth (5<sup>th</sup>) day after deposit in the United States mail. Any notice given by hand will be deemed to be received when delivered. Notice by courier will be deemed to have been received on the date shown on any certificate of delivery.

**In witness whereof the undersigned duly authorized representatives have executed this Agreement on the dates set forth beside their respective signatures.**

ARCHITECT/ENGINEER  
Dewberry Engineers Inc.

County:  
Fluvanna County

By: \_\_\_\_\_ Date: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

By: \_\_\_\_\_ Date: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

Approved as to form:

\_\_\_\_\_  
Fluvanna County Attorney

**PROJECT AGREEMENT #7**  
**TERM AGREEMENT FOR PROFESSIONAL SERVICES**  
**ZION CROSSROADS WATER & SEWER SYSTEM DESIGN/SERVICES**

This Project Agreement #7 (the Project Agreement”) made this \_\_\_\_ day of \_\_\_\_\_, 201\_\_ , between Fluvanna County, Virginia (the “County”), a political subdivision of the Commonwealth of Virginia, and Dewberry Engineers Inc. (the “Consultant”), a New York corporation authorized to transact business in Virginia, is an addendum to that TERM AGREEMENT FOR PROFESSIONAL SERVICES dated the \_\_\_\_ day of \_\_\_\_\_, 201\_\_ (including all exhibits and prior addenda thereto the “Agreement”). All defined terms in the Agreement shall have the same meaning as in this Project Agreement except for terms specifically defined herein.

Whereas, pursuant to the Agreement the County shall issue written task orders to the Contractor as services are needed;

Whereas, the County desires that the Contractor complete “Water Booster Station - Design” as described in the Agreement and, without limitation, as specifically described in Section 10 of the Fee Proposal, on pages 13-15 (the “Task Order”); and

Whereas, the Consultant desires to accept the Task Order and complete all work and services necessary and related thereto.

For good and valuable consideration, the parties hereby agree as follows:

**ARTICLE I: THE AGREEMENT**

The foregoing recitations are incorporated by reference into this Project Agreement.

This Project Agreement is an addendum to and made a material part of the Agreement. The parties hereto agree that except as specifically and expressly modified hereby that Agreement remains in full force and effect and the provisions of the Agreement are incorporated herein and are a material part hereof.

**ARTICLE II: TASK ORDER**

Consultant shall provide all work and services necessary or desired to complete the Task Order consistent with all provisions of this Project Agreement and the Agreement.

The County’s project manager for technical inquiries relating to this Project Agreement shall be:

Mr. Wayne Stephens  
 Director of Public Works  
 197 Main Street  
 Palmyra, VA 22963  
 Phone: (434) 591-1925  
 E-mail: [wstephens@fluvannacounty.org](mailto:wstephens@fluvannacounty.org)

Billing inquiries should be directed to Cyndi Toler, Purchasing Officer, whose contact information appears below in Article VI.

### **ARTICLE III: EXHIBITS AND RESOLVING CONFLICTS**

The rights and duties of the County and Consultant applicable to the County's projects under this Project Agreement are set forth in the following Agreement Documents:

- (i) All Project Agreements under this Agreement;
- (ii) this Agreement,
- (iii) the County of Fluvanna General Terms Conditions and Instructions to Bidders and Contractors, being pages 10 to 22 of Exhibit 1 hereto;
- (iv) the Fee Proposal, being Exhibit 3 hereto;
- (v) the Proposal, being Exhibit 2 hereto; and
- (vi) the RFP, being Exhibit 1 hereto.

Whenever possible, the terms of the above Agreement Documents shall be read together, however in the event of a conflict, the order of preference above shall govern which Agreement Document will control. In other words, (i) shall control over (ii) to (vi) above, (ii) shall control over (iii) to (vi) above, etc.

### **ARTICLE IV: FEES**

The Contractor shall receive a flat fee of FIFTY-FOUR THOUSAND FOUR-HUNDRED SEVENTY-FIVE and NO/100 (\$54,475.00); which shall be payable by the County in installments of TEN THOUSAND EIGHT-HUNDRED NINETY-FIVE and NO/100 (\$10,895.00) upon proper invoice by the Consultant as described herein. The Contractor shall submit invoices to the County of Fluvanna for services on the Task Order when the Task Order is 20%, 40%, 60%, 80% and finally complete. The invoice shall describe the services rendered to date with specificity. The Contractor will be paid within forty-five (45) days of receipt of a valid invoice following final acceptance of all work by the County of Fluvanna." No invoice may be provided by the Contractor to the County until the items or services purchased have been delivered to, inspected by and accepted by the County. In no event shall the fees due under this Project Agreement exceed \$54,475.00.

The flat fee includes all fees, costs and charges of any kind to perform all the services and work, including supplying at its own cost and expense any necessary tools, equipment or materials, necessary or desirable for completion of the task specified.

### **ARTICLE V: TERM**

Contractor shall with due diligence and dispatch assiduously pursue this Task Order to completion, but in any event such task order shall be completed to the sole satisfaction of the County on or before the \_\_\_\_ day of \_\_\_\_\_, 201\_.

### **ARTICLE VI: MISCELLANEOUS**

As appropriate to the context, the singular will include the plural and vice versa, and reference to one gender will include the others. This Project Agreement may be executed in one or more counterparts, each of which will be considered the Project Agreement for all purposes of

proof. In addition to allowing electronic signatures upon an electronic copy of this Project Agreement, as provided by Virginia law, facsimile signatures upon any signature page will be considered to be original signatures. This Project Agreement contains the entire understanding of the parties with respect to the subject matter hereof and is to be modified only by a writing signed by the parties to this Project Agreement. This Project Agreement will be binding upon and inure to the benefit of the respective parties and their successors. This Project Agreement is not assignable by either party, except by operation of law. The legal address for the County and for the Consultant and the addresses for delivery of Notices and other documents related to the administration of this Project Agreement are as follows:

County

ATTN: Cyndi Toler, Purchasing Officer  
Fluvanna County  
P.O. Box 540  
Palmyra, VA 22963  
Telephone (434) 591-1930  
FAX (434) 591-1911

Consultant

Dewberry Engineers Inc.  
ATTN: David S. Maxwell, Vice President  
4805 Lake Brook Drive  
Suite 200  
Glen Allen, VA 23060  
Telephone (804) 290-7957  
FAX (804) 290-7928

Any party may substitute another address for the one set forth above by giving a notice in the manner required. Any notice given by mail will be deemed to be received on the fifth (5<sup>th</sup>) day after deposit in the United States mail. Any notice given by hand will be deemed to be received when delivered. Notice by courier will be deemed to have been received on the date shown on any certificate of delivery.

**In witness whereof the undersigned duly authorized representatives have executed this Agreement on the dates set forth beside their respective signatures.**

ARCHITECT/ENGINEER

Dewberry Engineers Inc.

By: \_\_\_\_\_ Date: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Approved as to form:

County:

Fluvanna County

By: \_\_\_\_\_ Date: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

\_\_\_\_\_  
Fluvanna County Attorney

**PROJECT AGREEMENT #8**  
**TERM AGREEMENT FOR PROFESSIONAL SERVICES**  
**ZION CROSSROADS WATER & SEWER SYSTEM DESIGN/SERVICES**

This Project Agreement #8 (the "Project Agreement") made this \_\_\_\_ day of \_\_\_\_\_, 201\_\_, between Fluvanna County, Virginia (the "County"), a political subdivision of the Commonwealth of Virginia, and Dewberry Engineers Inc. (the "Consultant"), a New York corporation authorized to transact business in Virginia, is an addendum to that TERM AGREEMENT FOR PROFESSIONAL SERVICES dated the \_\_\_\_ day of \_\_\_\_\_, 201\_\_ (including all exhibits and prior addenda thereto the "Agreement"). All defined terms in the Agreement shall have the same meaning as in this Project Agreement except for terms specifically defined herein.

Whereas, pursuant to the Agreement the County shall issue written task orders to the Contractor as services are needed;

Whereas, the County desires that the Contractor complete "Sewage Pump Station - Design" as described in the Agreement and, without limitation, as specifically described in Section 12 of the Fee Proposal, on pages 15-17 (the "Task Order"); and

Whereas, the Consultant desires to accept the Task Order and complete all work and services necessary and related thereto.

For good and valuable consideration, the parties hereby agree as follows:

**ARTICLE I: THE AGREEMENT**

The foregoing recitations are incorporated by reference into this Project Agreement.

This Project Agreement is an addendum to and made a material part of the Agreement. The parties hereto agree that except as specifically and expressly modified hereby that Agreement remains in full force and effect and the provisions of the Agreement are incorporated herein and are a material part hereof.

**ARTICLE II: TASK ORDER**

Consultant shall provide all work and services necessary or desired to complete the Task Order consistent with all provisions of this Project Agreement and the Agreement.

The County's project manager for technical inquiries relating to this Project Agreement shall be:

Mr. Wayne Stephens  
 Director of Public Works  
 197 Main Street  
 Palmyra, VA 22963  
 Phone: (434) 591-1925  
 E-mail: [wstephens@fluvannacounty.org](mailto:wstephens@fluvannacounty.org)

Billing inquiries should be directed to Cyndi Toler, Purchasing Officer, whose contact information appears below in Article VI.

### **ARTICLE III: EXHIBITS AND RESOLVING CONFLICTS**

The rights and duties of the County and Consultant applicable to the County's projects under this Project Agreement are set forth in the following Agreement Documents:

- (i) All Project Agreements under this Agreement;
- (ii) this Agreement,
- (iii) the County of Fluvanna General Terms Conditions and Instructions to Bidders and Contractors, being pages 10 to 22 of Exhibit 1 hereto;
- (iv) the Fee Proposal, being Exhibit 3 hereto;
- (v) the Proposal, being Exhibit 2 hereto; and
- (vi) the RFP, being Exhibit 1 hereto.

Whenever possible, the terms of the above Agreement Documents shall be read together, however in the event of a conflict, the order of preference above shall govern which Agreement Document will control. In other words, (i) shall control over (ii) to (vi) above, (ii) shall control over (iii) to (vi) above, etc.

### **ARTICLE IV: FEES**

The Contractor shall receive a flat fee of SIXTY-NINE THOUSAND EIGHT-HUNDRED EIGHTY-FIVE and NO/100 (\$69,885.00); which shall be payable by the County in installments of THIRTEEN THOUSAND NINE-HUNDRED SEVENTY-SEVEN and NO/100 (\$13,977.00) upon proper invoice by the Consultant as described herein. The Contractor shall submit invoices to the County of Fluvanna for services on the Task Order when the Task Order is 20%, 40%, 60%, 80% and finally complete. The invoice shall describe the services rendered to date with specificity. The Contractor will be paid within forty-five (45) days of receipt of a valid invoice following final acceptance of all work by the County of Fluvanna." No invoice may be provided by the Contractor to the County until the items or services purchased have been delivered to, inspected by and accepted by the County. In no event shall the fees due under this Project Agreement exceed \$69,885.00.

The flat fee includes all fees, costs and charges of any kind to perform all the services and work, including supplying at its own cost and expense any necessary tools, equipment or materials, necessary or desirable for completion of the task specified.

### **ARTICLE V: TERM**

Contractor shall with due diligence and dispatch assiduously pursue this Task Order to completion, but in any event such task order shall be completed to the sole satisfaction of the County on or before the \_\_\_\_ day of \_\_\_\_\_, 201\_.

### **ARTICLE VI: MISCELLANEOUS**

As appropriate to the context, the singular will include the plural and vice versa, and reference to one gender will include the others. This Project Agreement may be executed in one or more counterparts, each of which will be considered the Project Agreement for all purposes of

proof. In addition to allowing electronic signatures upon an electronic copy of this Project Agreement, as provided by Virginia law, facsimile signatures upon any signature page will be considered to be original signatures. This Project Agreement contains the entire understanding of the parties with respect to the subject matter hereof and is to be modified only by a writing signed by the parties to this Project Agreement. This Project Agreement will be binding upon and inure to the benefit of the respective parties and their successors. This Project Agreement is not assignable by either party, except by operation of law. The legal address for the County and for the Consultant and the addresses for delivery of Notices and other documents related to the administration of this Project Agreement are as follows:

County

ATTN: Cyndi Toler, Purchasing Officer  
Fluvanna County  
P.O. Box 540  
Palmyra, VA 22963  
Telephone (434) 591-1930  
FAX (434) 591-1911

Consultant

Dewberry Engineers Inc.  
ATTN: David S. Maxwell, Vice President  
4805 Lake Brook Drive  
Suite 200  
Glen Allen, VA 23060  
Telephone (804) 290-7957  
FAX (804) 290-7928

Any party may substitute another address for the one set forth above by giving a notice in the manner required. Any notice given by mail will be deemed to be received on the fifth (5<sup>th</sup>) day after deposit in the United States mail. Any notice given by hand will be deemed to be received when delivered. Notice by courier will be deemed to have been received on the date shown on any certificate of delivery.

**In witness whereof the undersigned duly authorized representatives have executed this Agreement on the dates set forth beside their respective signatures.**

ARCHITECT/ENGINEER

Dewberry Engineers Inc.

By: \_\_\_\_\_ Date: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Approved as to form:

County:

Fluvanna County

By: \_\_\_\_\_ Date: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

\_\_\_\_\_  
Fluvanna County Attorney

**FLUVANNA COUNTY BOARD OF SUPERVISORS  
AGENDA ITEM STAFF REPORT**

**Meeting Date:** November 4, 2015

<b>AGENDA TITLE:</b>	VDOT Quarterly Report				
<b>MOTION(s):</b>					
<b>AGENDA CATEGORY:</b>	Public Hearing	Action Matter	Presentation	Consent Agenda	Other
			<b>XX</b>		
<b>STAFF CONTACT(S):</b>	Robert Popowicz, Community Development Director				
<b>PRESENTER(S):</b>	Joel DeNunzio, VDOT Charlottesville Residency Administrator				
<b>RECOMMENDATION:</b>					
<b>TIMING:</b>					
<b>DISCUSSION:</b>					
<b>FISCAL IMPACT:</b>					
<b>POLICY IMPACT:</b>					
<b>LEGISLATIVE HISTORY:</b>					
<b>ENCLOSURES:</b>	November VDOT Report				
<b>REVIEWS COMPLETED:</b>	Legal	Finance	Purchasing	HR	Other





## Culpeper District Fluvanna County Monthly Report November 2015

### Preliminary Engineering

PROJECT	LAST MILESTONE	NEXT MILESTONE	AD DATE
Route 53 Safety Improvements	Right of Way	Advertisement	TBD
Roundabout at US 15 and Route 53	Right of Way NTP	Application for funding thru HB-2	TBD*
Route 600 North Boston Road	Authorize PE	Survey	TBD
Route 633 North Boston Road – Reconstruction	--	Project Scoping – 2015	2023
Route 629 Deep Creek Road– Bridge Replacement	--	Project Scoping	January 2018

\* Pending funding from HB-2

### Construction Activities

#### Bridge Projects

- **Route 6 Rivanna River Bridge**—Bridge is currently closed. Finalize Ph-1 and turn traffic (before Thanksgiving). Proposed completion of Phase 1 is November 20, 2015

#### Resurfacing Projects

- **Plant Mix**—Project has been delayed, NTP March 14, 2016.
- **Surface Treatment**—All Routes completed.

#### Road Projects

- **Route 1007 Stoneleigh Road Rural Rustic**—Ready for surface treatment
- **Route 714 Union Church Road Rural Rustic**—Ready for surface treatment



## Traffic Engineering Studies

### Completed

*None at this time*

### Under Review

*None at this time.*

## Maintenance Activities

VDOT Area Headquarter crews completed the following activities during the past month. For specific route activities, please contact the Charlottesville Residency Office.

- Culverts replaced on 2 secondary routes
- Debris removal on 2 secondary routes
- Drainage repairs made on 2 primary routes and 8 secondary routes
- Mowing on 2 primary routes and 4 secondary routes
- Patching was performed on 1 secondary route
- Shoulders repaired on 1 secondary route
- Tree removal on 1 primary route and 2 secondary routes
- Trimming on 2 primary routes and 1 secondary routes
- All areas are preparing equipment for emergency winter weather operations



**FLUVANNA COUNTY BOARD OF SUPERVISORS AGENDA ITEM**

**Meeting Date:** November 4, 2015

<b>AGENDA TITLE:</b>	Fluvanna Parks and Recreation; Farm Heritage Museum Funding Update				
<b>MOTION(s):</b>	N/A				
<b>AGENDA CATEGORY:</b>	Public Hearing	Action Matter	Presentation	Consent Agenda	Other
			<b>X</b>		
<b>STAFF CONTACT(S):</b>	Jason Smith/Parks and Recreation Director				
<b>PRESENTER(S):</b>	Marvin Moss				
<b>RECOMMENDATION:</b>	N/A				
<b>TIMING:</b>	N/A				
<b>DISCUSSION:</b>	Presenting up to date Farm Heritage Museum funding progress and expected timeline moving forward.				
<b>FISCAL IMPACT:</b>	N/A				
<b>POLICY IMPACT:</b>	N/A				
<b>LEGISLATIVE HISTORY:</b>	N/A				
<b>ENCLOSURES:</b>	Farm Heritage Museum presentation.				
<b>REVIEWS COMPLETED:</b>	Legal	Finance	Purchasing	HR	Other





# **Fluvanna Parks & Recreation**

## **Farm Heritage Museum**

**November 4, 2015**



# Farm Heritage Museum Funds



- **Fluvanna Historical Society has raised \$113,299 to date.**

<b>Funding Agency</b>	<b>Amount</b>
CACF (Deposited to date at the Charlottesville Area Community Foundation)	\$76,804
Deposit	\$6,495
Perry Foundation	\$30,000
*Fluvanna County	\$10,000
<b>Total:</b>	<b>123,299.00</b>

**\*FY16 CIP If Approved**

- **Would the County consider raising its commitment from \$10,000 to \$15,000**



# Upcoming Schedule



- **November**
  - County, Historical Society and John May meet re: project scope
- **July** *(If BOS approves FY16 CIP)*
  - RFP's created and advertised
- **September**
  - Successful bidder is selected to move forward with project





# Questions?

**FLUVANNA COUNTY BOARD OF SUPERVISORS AGENDA ITEM**

**Meeting Date:** November 4, 2015

<b>AGENDA TITLE:</b>	FCPS FY17 Budget Focus				
<b>MOTION(s):</b>					
<b>CATEGORY</b>	Public Hearing	Action Matter	Presentation	Consent Agenda	Other
			XX		
<b>STAFF CONTACT(S):</b>	Gena Keller, Superintendent FCPS				
<b>PRESENTER(S):</b>	Gena Keller, Superintendent FCPS				
<b>RECOMMENDATION:</b>					
<b>TIMING:</b>					
<b>DISCUSSION:</b>					
<b>FISCAL IMPACT:</b>					
<b>POLICY IMPACT:</b>					
<b>LEGISLATIVE HISTORY:</b>					
<b>ENCLOSURES:</b>					
<b>REVIEWS</b>	Legal	Finance	Purchasing	HR	Other



**FLUVANNA COUNTY BOARD OF SUPERVISORS AGENDA ITEM**

**Meeting Date:** November 4, 2015

<b>AGENDA TITLE:</b>	FY15 Annual and FY16 Mid-Year Report Presentation				
<b>MOTION(s):</b>	N/A				
<b>AGENDA CATEGORY:</b>	Public Hearing	Action Matter	Presentation	Consent Agenda	Other
			<b>X</b>		
<b>STAFF CONTACT(S):</b>	Jason Smith/Parks and Recreation Director				
<b>PRESENTER(S):</b>	Jason Smith				
<b>RECOMMENDATION:</b>	N/A				
<b>TIMING:</b>	N/A				
<b>DISCUSSION:</b>	Presenting FY15 Parks and Recreation department annual report as well as FY16 progress to date.				
<b>FISCAL IMPACT:</b>	N/A				
<b>POLICY IMPACT:</b>	N/A				
<b>LEGISLATIVE HISTORY:</b>	N/A				
<b>ENCLOSURES:</b>	Parks and Recreation FY 15 Annual Report and FY16 Progress report.				
<b>REVIEWS COMPLETED:</b>	Legal	Finance	Purchasing	HR	Other



**FLUVANNA COUNTY BOARD OF SUPERVISORS AGENDA ITEM**

**Meeting Date:** November 4, 2015

<b>AGENDA TITLE:</b>	FUSD Rate Structure Update				
<b>MOTION(s):</b>	N/A				
<b>AGENDA CATEGORY:</b>	Public Hearing	Action Matter	Presentation	Consent Agenda	Other
			<b>XX</b>		
<b>STAFF CONTACT(S):</b>	Wayne Stephens, Director of Public Works & County Engineer				
<b>PRESENTER(S):</b>	Wayne Stephens, Director of Public Works & County Engineer				
<b>RECOMMENDATION:</b>					
<b>TIMING:</b>					
<b>DISCUSSION:</b>	Update on FUSD water rates and revenues.				
<b>FISCAL IMPACT:</b>					
<b>POLICY IMPACT:</b>					
<b>LEGISLATIVE HISTORY:</b>					
<b>ENCLOSURES:</b>					
<b>REVIEWS COMPLETED:</b>	Legal	Finance	Purchasing	HR	Other



**FLUVANNA COUNTY BOARD OF SUPERVISORS AGENDA ITEM**

**Meeting Date:** November 4, 2015

<b>AGENDA TITLE:</b>	FY15 4th Quarter Budget Report				
<b>MOTION(s):</b>					
<b>AGENDA CATEGORY:</b>	Public Hearing	Action Matter	Presentation	Consent Agenda	Other
			<b>X</b>		
<b>STAFF CONTACT(S):</b>	Mary Anna Twisdale, Management Analyst				
<b>PRESENTER(S):</b>	Mary Anna Twisdale, Management Analyst				
<b>RECOMMENDATION:</b>					
<b>TIMING:</b>	Routine				
<b>DISCUSSION:</b>	FY15 4th Quarter Budget Update				
<b>FISCAL IMPACT:</b>	N/A				
<b>POLICY IMPACT:</b>	N/A				
<b>LEGISLATIVE HISTORY:</b>	None				
<b>ENCLOSURES:</b>					
<b>REVIEWS COMPLETED:</b>	Legal	Finance	Purchasing	HR	Other
		<b>X</b>			



10/26/2015 09:00  
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COUNTY OF FLUVANNA  
YEAR-TO-DATE BUDGET REPORT **Through 6/30/15**

P 1  
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FOR 2015 12

ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
110 BOARD OF SUPERVISORS							
<a href="#">10011000 401114 BOARDCOMP</a>	40,800	0	40,800	40,799.98	.00	.02	100.0%
<a href="#">10011000 402100 FICA</a>	2,455	0	2,455	2,279.71	.00	175.29	92.9%
<a href="#">10011000 402300 MEDINS</a>	23,004	7,799	30,803	30,868.45	.00	-65.49	100.2%*
<a href="#">10011000 402700 WORKCOMP</a>	0	38	38	37.62	.00	.38	99.0%
<a href="#">10011000 403100 PROFSVCS</a>	55,400	4,340	59,740	58,017.00	.00	1,723.00	97.1%
<a href="#">10011000 403100 12DAY PROFSVCS</a>	120,000	299,257	419,257	419,256.11	.00	.89	100.0%
<a href="#">10011000 403500 PRINTING</a>	100	0	100	.00	.00	100.00	.0%
<a href="#">10011000 403600 ADVERT</a>	4,000	0	4,000	5,380.60	.00	-1,380.60	134.5%*
<a href="#">10011000 405210 POSTAL</a>	400	0	400	298.86	.00	101.14	74.7%
<a href="#">10011000 405230 TELECOMM</a>	3,920	0	3,920	4,154.88	.00	-234.88	106.0%*
<a href="#">10011000 405307 PUBOFFINS</a>	7,250	0	7,250	7,291.00	.00	-41.00	100.6%*
<a href="#">10011000 405510 MILEAGE</a>	1,000	0	1,000	1,500.46	.00	-500.46	150.0%*
<a href="#">10011000 405530 SUB&amp;LODG</a>	3,500	0	3,500	2,761.20	.00	738.80	78.9%
<a href="#">10011000 405540 CONVEDUC</a>	1,250	0	1,250	1,833.30	.00	-583.30	146.7%*
<a href="#">10011000 405810 DUES</a>	8,050	0	8,050	6,788.00	.00	1,262.00	84.3%
<a href="#">10011000 406001 OFFSUPL</a>	500	0	500	395.62	.00	104.38	79.1%
<a href="#">10011000 406012 BOOKS</a>	1,000	0	1,000	1,420.68	.00	-420.68	142.1%*
<a href="#">10011000 406014 OTHEROPER</a>	1,000	0	1,000	1,978.64	.00	-978.64	197.9%*
TOTAL BOARD OF SUPERVISORS	273,629	311,434	585,063	585,062.11	.00	.85	100.0%

10/26/2015 09:00  
5311mtwi

COUNTY OF FLUVANNA  
YEAR-TO-DATE BUDGET REPORT

P 2  
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FOR 2015 12

ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
120 COUNTY ADMINISTRATOR							
<a href="#">10012000 401100 SAL &amp; WAGE</a>	151,403	12,689	164,092	164,091.13	.00	.87	100.0%
<a href="#">10012000 401300 PT SAL/WAG</a>	14,430	0	14,430	13,346.21	.00	1,083.79	92.5%
<a href="#">10012000 401310 OT PAY</a>	800	400	1,200	2,929.97	.00	-1,729.97	244.2%*
<a href="#">10012000 401335 TECH STPND</a>	1,200	0	1,200	1,199.90	.00	.10	100.0%
<a href="#">10012000 401336 VEH STPND</a>	4,800	0	4,800	4,800.12	.00	-.12	100.0%*
<a href="#">10012000 402100 FICA</a>	13,207	494	13,701	13,144.59	.00	556.41	95.9%
<a href="#">10012000 402210 VRS</a>	19,456	-2,968	16,488	16,730.69	.00	-243.17	101.5%*
<a href="#">10012000 402250 DISABILITY</a>	0	0	0	181.80	.00	-181.80	100.0%*
<a href="#">10012000 402300 MEDINS</a>	17,002	-6,322	10,680	9,424.97	.00	1,255.03	88.2%
<a href="#">10012000 402400 GRPLIFE</a>	1,802	77	1,879	1,852.29	.00	26.71	98.6%
<a href="#">10012000 402700 WORKCOMP</a>	389	-228	161	160.14	.00	.86	99.5%
<a href="#">10012000 403100 PROFSVCS</a>	4,000	0	4,000	3,996.00	.00	4.00	99.9%
<a href="#">10012000 405210 POSTAL</a>	506	0	506	762.40	.00	-256.40	150.7%*
<a href="#">10012000 405230 TELECOMM</a>	960	0	960	480.18	.00	479.82	50.0%
<a href="#">10012000 405410 LEASERENT</a>	3,555	212	3,767	4,994.21	.00	-1,227.36	132.6%*
<a href="#">10012000 405510 MILEAGE</a>	400	0	400	173.51	.00	226.49	43.4%
<a href="#">10012000 405530 SUB&amp;LODG</a>	1,300	0	1,300	938.23	.00	361.77	72.2%
<a href="#">10012000 405540 CONVEDUC</a>	1,675	0	1,675	884.16	.00	790.84	52.8%
<a href="#">10012000 405810 DUES</a>	1,510	0	1,510	1,678.52	.00	-168.52	111.2%*
<a href="#">10012000 406001 OFFSUPL</a>	2,500	0	2,500	2,772.96	.00	-272.96	110.9%*
<a href="#">10012000 406012 BOOKS</a>	350	0	350	429.12	.00	-79.12	122.6%*
<a href="#">10012000 408102 FURN/FIX</a>	500	0	500	1,127.00	.00	-627.00	225.4%*
TOTAL COUNTY ADMINISTRATOR	241,745	4,353	246,098	246,098.10	.00	.27	100.0%

10/26/2015 09:00  
5311mtwi

COUNTY OF FLUVANNA  
YEAR-TO-DATE BUDGET REPORT

P 3  
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FOR 2015 12

ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
<hr/>							
125 COUNTY ATTORNEY							
<u>10012500 403100 PROFSVCS</u>	180,000	0	180,000	169,985.47	.00	10,014.53	94.4%
TOTAL COUNTY ATTORNEY	180,000	0	180,000	169,985.47	.00	10,014.53	94.4%

10/26/2015 09:00  
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COUNTY OF FLUVANNA  
YEAR-TO-DATE BUDGET REPORT

P 4  
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FOR 2015 12

ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
130 COMMISSIONER OF THE REVENUE							
<a href="#">10013000 401100 SAL &amp; WAGE</a>	230,722	9,295	240,017	238,950.64	.00	1,066.36	99.6%
<a href="#">10013000 401300 PT SAL/WAG</a>	0	5,500	5,500	.00	.00	5,500.00	.0%
<a href="#">10013000 401330 CB STIPEND</a>	6,197	-6,197	0	.00	.00	.00	.0%
<a href="#">10013000 402100 FICA</a>	18,124	447	18,571	17,792.20	.00	778.80	95.8%
<a href="#">10013000 402210 VRS</a>	29,648	-4,751	24,897	25,056.58	.00	-159.72	100.6%*
<a href="#">10013000 402250 DISABILITY</a>	0	0	0	105.00	.00	-105.00	100.0%*
<a href="#">10013000 402300 MEDINS</a>	19,044	8,196	27,240	20,749.00	.00	6,491.00	76.2%
<a href="#">10013000 402400 GRPLIFE</a>	2,746	70	2,816	2,769.99	.00	46.01	98.4%
<a href="#">10013000 402700 WORKCOMP</a>	240	-20	220	219.24	.00	.76	99.7%
<a href="#">10013000 403100 PROFSVCS</a>	17,730	-5,500	12,230	11,735.22	.00	494.78	96.0%
<a href="#">10013000 403310 REP/MAINT</a>	416	0	416	345.97	.00	70.03	83.2%
<a href="#">10013000 403320 MAINTCONT</a>	0	4,000	4,000	4,000.00	.00	.00	100.0%
<a href="#">10013000 403500 PRINTING</a>	1,540	582	2,122	2,121.66	.00	.34	100.0%
<a href="#">10013000 403600 ADVERT</a>	200	-200	0	.00	.00	.00	.0%
<a href="#">10013000 405210 POSTAL</a>	1,290	1,400	2,690	2,688.21	.00	1.79	99.9%
<a href="#">10013000 405230 TELECOMM</a>	1,700	-232	1,468	710.10	.00	757.90	48.4%
<a href="#">10013000 405410 LEASERENT</a>	6,080	-700	5,380	2,407.34	.00	2,972.66	44.7%
<a href="#">10013000 405510 MILEAGE</a>	150	-150	0	.00	.00	.00	.0%
<a href="#">10013000 405530 SUB&amp;LODG</a>	1,000	250	1,250	1,247.08	.00	2.92	99.8%
<a href="#">10013000 405540 CONVEDUC</a>	1,500	0	1,500	1,370.00	.00	130.00	91.3%
<a href="#">10013000 405810 DUES</a>	480	100	580	578.15	.00	1.85	99.7%
<a href="#">10013000 406001 OFFSUPL</a>	2,400	300	2,700	3,967.47	.00	-1,267.47	146.9%*
<a href="#">10013000 406008 VEHFUEL</a>	600	0	600	452.85	.00	147.15	75.5%
<a href="#">10013000 406021 ADPSUPL</a>	1,700	-450	1,250	.00	.00	1,250.00	.0%
<a href="#">10013000 408102 FURN/FIX</a>	400	-400	0	173.39	.00	-173.39	100.0%*
TOTAL COMMISSIONER OF THE REVENUE	343,907	11,540	355,447	337,440.09	.00	18,006.77	94.9%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
135 REASSESSMENT							
<u>10013500 403100 PROFSVCS</u>	78,050	11,105	89,155	89,198.72	.00	-43.72	100.0%*
<u>10013500 403600 ADVERT</u>	350	0	350	627.48	.00	-277.48	179.3%*
<u>10013500 406001 OFFSUPL</u>	100	0	100	27.92	.00	72.08	27.9%
<u>10013500 408102 FURN/FIX</u>	250	0	250	.00	.00	250.00	.0%
TOTAL REASSESSMENT	78,750	11,105	89,855	89,854.12	.00	.88	100.0%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
140 TREASURER							
<a href="#">10014000 401100 SAL &amp; WAGE</a>	273,938	7,041	280,979	282,017.35	.00	-1,038.35	100.4%*
<a href="#">10014000 402100 FICA</a>	20,956	481	21,437	20,753.68	.00	683.32	96.8%
<a href="#">10014000 402210 VRS</a>	35,201	-5,695	29,506	29,818.42	.00	-312.62	101.1%*
<a href="#">10014000 402300 MEDINS</a>	37,756	-136	37,620	38,302.50	.00	-682.50	101.8%*
<a href="#">10014000 402400 GRPLIFE</a>	3,260	75	3,335	3,295.77	.00	39.23	98.8%
<a href="#">10014000 402700 WORKCOMP</a>	290	-35	255	254.27	.00	.73	99.7%
<a href="#">10014000 403100 PROFSVCS</a>	20,325	0	20,325	17,032.50	.00	3,292.50	83.8%
<a href="#">10014000 403320 MAINTCONT</a>	0	0	0	60.00	.00	-60.00	100.0%*
<a href="#">10014000 403500 PRINTING</a>	11,575	0	11,575	17,187.85	.00	-5,612.85	148.5%*
<a href="#">10014000 403600 ADVERT</a>	120	0	120	295.00	.00	-175.00	245.8%*
<a href="#">10014000 404102 DMV DMVONLN</a>	16,000	0	16,000	17,540.00	.00	-1,540.00	109.6%*
<a href="#">10014000 405210 POSTAL</a>	35,000	0	35,000	20,519.89	.00	14,480.11	58.6%
<a href="#">10014000 405230 TELECOMM</a>	2,500	0	2,500	1,205.23	.00	1,294.77	48.2%
<a href="#">10014000 405410 LEASERENT</a>	7,308	0	7,308	9,731.23	.00	-2,423.23	133.2%*
<a href="#">10014000 405540 CONVEDUC</a>	1,000	0	1,000	265.04	.00	734.96	26.5%
<a href="#">10014000 405810 DUES</a>	830	0	830	.00	.00	830.00	.0%
<a href="#">10014000 406001 OFFSUPL</a>	3,500	0	3,500	3,875.70	.00	-375.70	110.7%*
<a href="#">10014000 406021 ADESUPL</a>	2,500	0	2,500	.00	.00	2,500.00	.0%
<a href="#">10014000 408102 FURN/FIX</a>	1,000	0	1,000	.00	.00	1,000.00	.0%
TOTAL TREASURER	473,059	1,731	474,790	462,154.43	.00	12,635.37	97.3%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
150 INFORMATION TECHNOLOGY							
<a href="#">10015000 401100 SAL &amp; WAGE</a>	105,631	5,141	110,772	110,772.07	.00	- .07	100.0%*
<a href="#">10015000 401310 OT PAY</a>	1,000	0	1,000	.00	.00	1,000.00	.0%
<a href="#">10015000 402100 FICA</a>	8,081	202	8,283	8,007.62	.00	275.38	96.7%
<a href="#">10015000 402210 VRS</a>	13,574	-2,179	11,395	11,554.39	.00	-159.16	101.4%*
<a href="#">10015000 402300 MEDINS</a>	6,001	4,679	10,680	10,235.00	.00	445.00	95.8%
<a href="#">10015000 402400 GRPLIFE</a>	1,257	31	1,288	1,276.60	.00	11.40	99.1%
<a href="#">10015000 402700 WORKCOMP</a>	71	27	98	97.39	.00	.61	99.4%
<a href="#">10015000 403100 PROFSVCS</a>	14,900	0	14,900	16,246.09	.00	-1,346.09	109.0%*
<a href="#">10015000 403131 ADPSERV</a>	172,080	-15,600	156,480	156,196.35	.00	283.65	99.8%
<a href="#">10015000 405210 POSTAL</a>	0	0	0	8.69	.00	-8.69	100.0%*
<a href="#">10015000 405230 TELECOMM</a>	31,800	0	31,800	27,530.26	.00	4,269.74	86.6%
<a href="#">10015000 405410 LEASERENT</a>	0	0	0	380.57	.00	-380.57	100.0%*
<a href="#">10015000 405510 MILEAGE</a>	200	0	200	.00	.00	200.00	.0%
<a href="#">10015000 405540 CONVEDUC</a>	2,000	0	2,000	1,959.80	.00	40.20	98.0%
<a href="#">10015000 405810 DUES</a>	500	0	500	215.00	.00	285.00	43.0%
<a href="#">10015000 406001 OFFSUPL</a>	600	0	600	155.64	.00	444.36	25.9%
<a href="#">10015000 406012 BOOKS</a>	1,100	0	1,100	1,020.61	.00	79.39	92.8%
<a href="#">10015000 406021 ADESUPL</a>	8,000	0	8,000	8,139.10	.00	-139.10	101.7%*
<a href="#">10015000 408102 FURN/FIX</a>	500	0	500	1,711.37	.00	-1,211.37	342.3%*
<a href="#">10015000 408107 EDPEQUIP</a>	34,020	16,600	50,620	50,107.10	.00	512.90	99.0%
TOTAL INFORMATION TECHNOLOGY	401,315	8,901	410,216	405,613.65	.00	4,602.58	98.9%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
160 FINANCE							
<a href="#">10016000 401100 SAL &amp; WAGE</a>	244,939	2,027	246,966	230,900.95	.00	16,065.05	93.5%
<a href="#">10016000 401310 OT PAY</a>	0	0	0	64.18	.00	-64.18	100.0%*
<a href="#">10016000 402100 FICA</a>	18,738	155	18,893	17,137.47	.00	1,755.53	90.7%
<a href="#">10016000 402210 VRS</a>	31,475	-5,392	26,083	24,956.65	.00	1,126.22	95.7%
<a href="#">10016000 402250 DISABILITY</a>	0	0	0	28.77	.00	-28.77	100.0%*
<a href="#">10016000 402300 MEDINS</a>	26,503	7,577	34,080	25,025.00	.00	9,055.00	73.4%
<a href="#">10016000 402400 GRPLIFE</a>	2,915	24	2,939	2,745.57	.00	193.43	93.4%
<a href="#">10016000 402700 WORKCOMP</a>	221	6	227	226.42	.00	.58	99.7%
<a href="#">10016000 403100 PROFSVCS</a>	2,350	0	2,350	647.50	.00	1,702.50	27.6%
<a href="#">10016000 403300 CONTRSVC</a>	0	0	0	676.00	.00	-676.00	100.0%*
<a href="#">10016000 403305 SURP COST</a>	0	0	0	160.00	.00	-160.00	100.0%*
<a href="#">10016000 403500 PRINTING</a>	0	0	0	63.18	.00	-63.18	100.0%*
<a href="#">10016000 403600 ADVERT</a>	0	0	0	73.67	.00	-73.67	100.0%*
<a href="#">10016000 405210 POSTAL</a>	1,800	0	1,800	1,953.15	.00	-153.15	108.5%*
<a href="#">10016000 405230 TELECOMM</a>	900	0	900	421.31	.00	478.69	46.8%
<a href="#">10016000 405410 LEASERENT</a>	2,100	169	2,269	2,373.00	.00	-103.55	104.6%*
<a href="#">10016000 405510 MILEAGE</a>	300	0	300	179.97	.00	120.03	60.0%
<a href="#">10016000 405530 SUB&amp;LODG</a>	1,200	0	1,200	701.40	.00	498.60	58.5%
<a href="#">10016000 405540 CONVEDUC</a>	2,300	0	2,300	399.00	.00	1,901.00	17.3%
<a href="#">10016000 405810 DUES</a>	1,330	0	1,330	1,030.00	.00	300.00	77.4%
<a href="#">10016000 405999 PENALTIES</a>	0	0	0	75.00	.00	-75.00	100.0%*
<a href="#">10016000 406001 OFFSUPL</a>	4,000	0	4,000	2,459.90	.00	1,540.10	61.5%
<a href="#">10016000 406008 VEHFUEL</a>	0	0	0	8.65	.00	-8.65	100.0%*
<a href="#">10016000 406012 BOOKS</a>	300	0	300	71.00	.00	229.00	23.7%
<a href="#">10016000 406014 OTHEROPER</a>	0	0	0	15.00	.00	-15.00	100.0%*
<a href="#">10016000 408102 FURN/FIX</a>	500	0	500	93.72	.00	406.28	18.7%
TOTAL FINANCE	341,871	4,566	346,437	312,486.46	.00	33,950.86	90.2%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
170 REGISTRAR/ELECTORAL BOARD							
<a href="#">10017000 401100 SAL &amp; WAGE</a>	52,169	1,826	53,995	57,506.73	.00	-3,511.73	106.5%*
<a href="#">10017000 401114 BOARDCOMP</a>	9,801	-640	9,161	8,337.26	.00	823.74	91.0%
<a href="#">10017000 401300 PT SAL/WAG</a>	37,175	1,479	38,654	33,037.86	.00	5,616.14	85.5%
<a href="#">10017000 401310 OT PAY</a>	0	0	0	390.38	.00	-390.38	100.0%*
<a href="#">10017000 402100 FICA</a>	6,835	253	7,088	7,481.83	.00	-393.83	105.6%*
<a href="#">10017000 402210 VRS</a>	9,747	-1,033	8,714	7,916.38	.00	797.93	90.8%
<a href="#">10017000 402250 DISABILITY</a>	0	0	0	119.37	.00	-119.37	100.0%*
<a href="#">10017000 402300 MEDINS</a>	15,752	-1,652	14,100	12,337.50	.00	1,762.50	87.5%
<a href="#">10017000 402400 GRPLIFE</a>	903	22	925	875.15	.00	49.85	94.6%
<a href="#">10017000 402700 WORKCOMP</a>	116	-43	73	72.05	.00	.95	98.7%
<a href="#">10017000 403300 CONTRSVC</a>	54,259	0	54,259	24,749.83	.00	29,509.17	45.6%
<a href="#">10017000 403310 REP/MAINT</a>	0	0	0	1,100.00	.00	-1,100.00	100.0%*
<a href="#">10017000 403600 ADVERT</a>	500	0	500	281.50	.00	218.50	56.3%
<a href="#">10017000 405210 POSTAL</a>	2,500	0	2,500	1,962.02	.00	537.98	78.5%
<a href="#">10017000 405230 TELECOMM</a>	1,930	0	1,930	776.60	.00	1,153.40	40.2%
<a href="#">10017000 405410 LEASERENT</a>	2,870	0	2,870	1,961.22	.00	908.78	68.3%
<a href="#">10017000 405510 MILEAGE</a>	2,500	0	2,500	944.69	.00	1,555.31	37.8%
<a href="#">10017000 405530 SUB&amp;LODG</a>	2,400	0	2,400	.00	.00	2,400.00	.0%
<a href="#">10017000 405540 CONVEDUC</a>	2,600	0	2,600	645.02	.00	1,954.98	24.8%
<a href="#">10017000 405810 DUES</a>	455	0	455	305.00	.00	150.00	67.0%
<a href="#">10017000 406001 OFFSUPL</a>	3,000	0	3,000	3,566.07	.00	-566.07	118.9%*
<a href="#">10017000 408101 MACHEQUIP</a>	33,050	1,125	34,175	52,290.00	.00	-18,115.00	153.0%*
TOTAL REGISTRAR/ELECTORAL BOARD	238,562	1,337	239,899	216,656.46	.00	23,242.85	90.3%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
180 HUMAN RESOURCES							
<a href="#">10018000 401100 SAL &amp; WAGE</a>	54,057	1,622	55,679	55,679.01	.00	-.01	100.0%*
<a href="#">10018000 402100 FICA</a>	4,135	124	4,259	4,139.18	.00	119.82	97.2%
<a href="#">10018000 402210 VRS</a>	6,946	-1,092	5,854	5,941.89	.00	-87.80	101.5%*
<a href="#">10018000 402300 MEDINS</a>	6,000	-120	5,880	5,880.00	.00	.00	100.0%
<a href="#">10018000 402400 GRPLIFE</a>	643	19	662	656.60	.00	5.40	99.2%
<a href="#">10018000 402700 WORKCOMP</a>	65	-14	51	50.31	.00	.69	98.6%
<a href="#">10018000 403100 PROFSVCS</a>	3,200	0	3,200	702.00	.00	2,498.00	21.9%
<a href="#">10018000 405350 RECRUIT</a>	1,000	0	1,000	1,479.80	.00	-479.80	148.0%*
<a href="#">10018000 405360 EMP RECOGN</a>	10,150	0	10,150	2,319.62	.00	7,830.38	22.9%
<a href="#">10018000 405410 LEASERENT</a>	538	45	583	546.85	.00	35.95	93.8%
<a href="#">10018000 405510 MILEAGE</a>	100	0	100	76.48	.00	23.52	76.5%
<a href="#">10018000 405530 SUB&amp;LODG</a>	500	0	500	194.30	.00	305.70	38.9%
<a href="#">10018000 405540 CONVEDUC</a>	900	0	900	998.00	.00	-98.00	110.9%*
<a href="#">10018000 405810 DUES</a>	480	0	480	100.00	.00	380.00	20.8%
<a href="#">10018000 406001 OFFSUPL</a>	500	0	500	460.52	.00	39.48	92.1%
<a href="#">10018000 406012 BOOKS</a>	130	0	130	129.19	.00	.81	99.4%
<a href="#">10018000 408101 MACHEQUIP</a>	0	3,000	3,000	3,004.00	.00	-4.00	100.1%*
<a href="#">10018000 408102 FURN/FIX</a>	0	0	0	2,671.94	.00	-2,671.94	100.0%*
TOTAL HUMAN RESOURCES	89,344	3,584	92,928	85,029.69	.00	7,898.20	91.5%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
210 GENERAL DISTRICT COURT							
<a href="#">10021000 403320 MAINTCONT</a>	3,015	0	3,015	2,419.54	.00	595.46	80.3%
<a href="#">10021000 405230 TELECOMM</a>	4,000	0	4,000	3,481.16	.00	518.84	87.0%
<a href="#">10021000 405410 LEASERENT</a>	100	0	100	484.53	.00	-384.53	484.5%*
<a href="#">10021000 405510 MILEAGE</a>	150	0	150	.00	.00	150.00	.0%
<a href="#">10021000 405540 CONVEDUC</a>	500	0	500	.00	.00	500.00	.0%
<a href="#">10021000 405810 DUES</a>	60	0	60	60.00	.00	.00	100.0%
<a href="#">10021000 406001 OFFSUPL</a>	275	0	275	134.77	.00	140.23	49.0%
TOTAL GENERAL DISTRICT COURT	8,100	0	8,100	6,580.00	.00	1,520.00	81.2%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
220 COURT SERVICE UNIT							
<u>10022000 405210 POSTAL</u>	160	0	160	112.00	.00	48.00	70.0%
<u>10022000 405230 TELECOMM</u>	900	0	900	402.43	.00	497.57	44.7%
<u>10022000 405410 LEASERENT</u>	450	0	450	190.90	.00	259.10	42.4%
<u>10022000 405510 MILEAGE</u>	350	0	350	418.68	.00	-68.68	119.6%*
<u>10022000 405540 CONVEDUC</u>	300	0	300	155.00	.00	145.00	51.7%
<u>10022000 406001 OFFSUPL</u>	700	0	700	621.72	.00	78.28	88.8%
TOTAL COURT SERVICE UNIT	2,860	0	2,860	1,900.73	.00	959.27	66.5%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
230 CLERK OF THE CIRCUIT COURT							
10023000 401100 SAL & WAGE	365,234	9,090	374,324	367,421.19	.00	6,902.81	98.2%
10023000 401115 JURORWITNS	0	0	0	168.16	.00	-168.16	100.0%*
10023000 401310 OT PAY	0	0	0	6,679.41	.00	-6,679.41	100.0%*
10023000 402100 FICA	27,941	695	28,636	26,194.89	.00	2,441.11	91.5%
10023000 402210 VRS	46,932	-7,535	39,397	39,124.83	.00	272.02	99.3%
10023000 402250 DISABILITY	0	0	0	166.54	.00	-166.54	100.0%*
10023000 402300 MEDINS	65,505	4,155	69,660	64,847.50	.00	4,812.50	93.1%
10023000 402400 GRPLIFE	4,347	108	4,455	4,322.62	.00	132.38	97.0%
10023000 402700 WORKCOMP	371	-30	341	340.12	.00	.88	99.7%
10023000 403100 PROFSVCS	35,000	0	35,000	34,958.26	.00	41.74	99.9%
10023000 403140 TTFND TECHTRUST	7,096	0	7,096	7,202.50	.00	-106.50	101.5%*
10023000 403150 RECPR RECRDPRSV	14,000	0	14,000	.00	.00	14,000.00	.0%
10023000 403300 CONTRSVC	1,200	0	1,200	1,069.71	.00	130.29	89.1%
10023000 403310 REP/MAINT	750	0	750	.00	.00	750.00	.0%
10023000 403320 MAINTCONT	1,700	0	1,700	995.00	.00	705.00	58.5%
10023000 403500 PRINTING	4,100	0	4,100	2,273.86	.00	1,826.14	55.5%
10023000 405210 POSTAL	3,500	0	3,500	3,669.90	.00	-169.90	104.9%*
10023000 405230 TELECOMM	1,500	0	1,500	793.52	.00	706.48	52.9%
10023000 405410 LEASERENT	2,900	197	3,097	2,882.78	.00	213.85	93.1%
10023000 405510 MILEAGE	300	0	300	.00	.00	300.00	.0%
10023000 405540 CONVEDUC	750	0	750	864.07	.00	-114.07	115.2%*
10023000 405810 DUES	400	0	400	.00	.00	400.00	.0%
10023000 406001 OFFSUPL	6,020	0	6,020	6,853.60	.00	-833.60	113.8%*
10023000 406012 BOOKS	8	0	8	8.75	.00	-.75	109.4%*
10023000 408102 FURN/FIX	400	0	400	.00	.00	400.00	.0%
10023000 408107 EDPEQUIP	2,500	0	2,500	.00	.00	2,500.00	.0%
TOTAL CLERK OF THE CIRCUIT COURT	592,454	6,679	599,133	570,837.21	.00	28,296.27	95.3%

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COUNTY OF FLUVANNA  
YEAR-TO-DATE BUDGET REPORT

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FOR 2015 12

ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
235 CIRCUIT COURT JUDGE							
<a href="#">10023500 401115 JURORWITNS</a>	4,800	0	4,800	5,100.00	.00	-300.00	106.3%*
<a href="#">10023500 401116 JURYCOMMIS</a>	180	0	180	.00	.00	180.00	.0%
<a href="#">10023500 401117 CIVILJUROR</a>	5,400	0	5,400	.00	.00	5,400.00	.0%
<a href="#">10023500 401118 GRNDJUROR</a>	1,260	0	1,260	.00	.00	1,260.00	.0%
<a href="#">10023500 401119 WITNESSFEE</a>	500	0	500	.00	.00	500.00	.0%
<a href="#">10023500 401120 CAATTYFEES</a>	175	0	175	.00	.00	175.00	.0%
<a href="#">10023500 403100 PROFSVCS</a>	24,613	0	24,613	24,782.85	.00	-169.85	100.7%*
<a href="#">10023500 403320 MAINTCONT</a>	100	0	100	.00	.00	100.00	.0%
<a href="#">10023500 405230 TELECOMM</a>	500	0	500	200.06	.00	299.94	40.0%
<a href="#">10023500 405810 DUES</a>	650	0	650	.00	.00	650.00	.0%
<a href="#">10023500 406001 OFFSUPL</a>	750	-550	200	287.12	.00	-87.12	143.6%*
<a href="#">10023500 408107 EDPEQUIP</a>	0	550	550	550.00	.00	.00	100.0%
TOTAL CIRCUIT COURT JUDGE	38,928	0	38,928	30,920.03	.00	8,007.97	79.4%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
240 COMMONWEALTHS ATTORNEY							
<a href="#">10024000 401100 SAL &amp; WAGE</a>	236,075	20,347	256,422	257,199.07	.00	-777.07	100.3%*
<a href="#">10024000 401100 VICWT SAL &amp; WAGE</a>	46,226	71	46,297	47,022.69	.00	-725.69	101.6%*
<a href="#">10024000 401310 VICWT OT PAY</a>	0	0	0	123.62	.00	-123.62	100.0%*
<a href="#">10024000 401330 CB STIPEND</a>	8,841	-8,841	0	.00	.00	.00	.0%
<a href="#">10024000 402100 FICA</a>	18,736	314	19,050	17,927.57	.00	1,122.43	94.1%
<a href="#">10024000 402100 VICWT FICA</a>	3,489	5	3,494	3,508.83	.00	-14.83	100.4%*
<a href="#">10024000 402210 VRS</a>	30,336	-5,017	25,319	27,433.44	.00	-2,114.66	108.4%*
<a href="#">10024000 402210 VICWT VRS</a>	5,861	-1,043	4,818	4,989.23	.00	-171.17	103.6%*
<a href="#">10024000 402300 MEDINS</a>	23,002	4,238	27,240	27,240.00	.00	.00	100.0%
<a href="#">10024000 402300 VICWT MEDINS</a>	6,003	-123	5,880	5,880.00	.00	.00	100.0%
<a href="#">10024000 402400 GRPLIFE</a>	2,809	49	2,858	2,928.79	.00	-70.79	102.5%*
<a href="#">10024000 402400 VICWT GRPLIFE</a>	543	1	544	551.26	.00	-7.26	101.3%*
<a href="#">10024000 402700 WORKCOMP</a>	210	33	243	242.33	.00	.67	99.7%
<a href="#">10024000 403300 CONTRSVC</a>	1,500	0	1,500	942.81	.00	557.19	62.9%
<a href="#">10024000 403320 MAINTCONT</a>	3,568	0	3,568	3,637.00	.00	-69.00	101.9%*
<a href="#">10024000 405210 POSTAL</a>	775	0	775	687.71	.00	87.29	88.7%
<a href="#">10024000 405230 TELECOMM</a>	1,700	0	1,700	1,031.37	.00	668.63	60.7%
<a href="#">10024000 405410 LEASERENT</a>	58	0	58	60.00	.00	-2.00	103.4%*
<a href="#">10024000 405540 CONVEDUC</a>	5,000	0	5,000	5,007.51	.00	-7.51	100.2%*
<a href="#">10024000 405810 DUES</a>	1,210	0	1,210	1,541.00	.00	-331.00	127.4%*
<a href="#">10024000 406001 OFFSUPL</a>	4,300	0	4,300	5,297.34	.00	-997.34	123.2%*
<a href="#">10024000 406012 BOOKS</a>	6,500	0	6,500	3,171.09	.00	3,328.91	48.8%
<a href="#">10024000 408102 FURN/FIX</a>	250	0	250	853.15	.00	-603.15	341.3%*
<a href="#">10024000 408107 EDPEQUIP</a>	250	0	250	.00	.00	250.00	.0%
TOTAL COMMONWEALTHS ATTORNEY	407,242	10,034	417,276	417,275.81	.00	.03	100.0%

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ACCOUNTS FOR: 100	GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
310 SHERIFF								
<a href="#">10031000</a>	<a href="#">401100</a>	<a href="#">SAL &amp; WAGE</a>						
		1,367,972	45,165	1,413,137	1,400,659.72	.00	12,477.28	99.1%
<a href="#">10031000</a>	<a href="#">401300</a>	<a href="#">PT SAL/WAG</a>						
		41,007	0	41,007	40,358.94	.00	648.06	98.4%
<a href="#">10031000</a>	<a href="#">401310</a>	<a href="#">OT PAY</a>						
		50,000	0	50,000	50,766.99	.00	-766.99	101.5%*
<a href="#">10031000</a>	<a href="#">401320</a>	<a href="#">HOLDISCPAY</a>						
		44,000	0	44,000	54,594.99	.00	-10,594.99	124.1%*
<a href="#">10031000</a>	<a href="#">401325</a>	<a href="#">CNTRCTWAGE</a>						
		30,000	0	30,000	23,059.89	.00	6,940.11	76.9%
<a href="#">10031000</a>	<a href="#">401331</a>	<a href="#">AC STIPEND</a>						
		12,000	-12,000	0	.00	.00	.00	.0%
<a href="#">10031000</a>	<a href="#">401332</a>	<a href="#">FT STIPEND</a>						
		3,000	-3,000	0	.00	.00	.00	.0%
<a href="#">10031000</a>	<a href="#">401333</a>	<a href="#">ED STIPEND</a>						
		15,000	-15,000	0	.00	.00	.00	.0%
<a href="#">10031000</a>	<a href="#">401334</a>	<a href="#">MD STIPEND</a>						
		12,600	-12,600	0	.00	.00	.00	.0%
<a href="#">10031000</a>	<a href="#">402100</a>	<a href="#">FICA</a>						
		117,454	196	117,650	116,527.53	.00	1,122.47	99.0%
<a href="#">10031000</a>	<a href="#">402210</a>	<a href="#">VRS</a>						
		178,927	-30,840	148,087	146,434.89	.00	1,651.92	98.9%
<a href="#">10031000</a>	<a href="#">402300</a>	<a href="#">MEDINS</a>						
		174,460	-15,547	158,913	170,592.09	.00	-11,679.21	107.3%*
<a href="#">10031000</a>	<a href="#">402400</a>	<a href="#">GRPLIFE</a>						
		16,570	31	16,601	16,215.85	.00	385.15	97.7%
<a href="#">10031000</a>	<a href="#">402600</a>	<a href="#">UNEMPL</a>						
		0	0	0	1,035.31	.00	-1,035.31	100.0%*
<a href="#">10031000</a>	<a href="#">402700</a>	<a href="#">WORKCOMP</a>						
		19,539	6,022	25,561	25,560.30	.00	.70	100.0%
<a href="#">10031000</a>	<a href="#">402750</a>	<a href="#">LINEOFDUTY</a>						
		10,642	0	10,642	10,540.00	.00	102.00	99.0%
<a href="#">10031000</a>	<a href="#">402810</a>	<a href="#">CLOTHING</a>						
		2,800	0	2,800	2,800.00	.00	.00	100.0%
<a href="#">10031000</a>	<a href="#">403100</a>	<a href="#">PROFSVCS</a>						
		2,000	1,712	3,712	3,634.65	.00	77.35	97.9%
<a href="#">10031000</a>	<a href="#">403300</a>	<a href="#">CONTR SVC</a>						
		2,000	0	2,000	1,451.60	.00	548.40	72.6%
<a href="#">10031000</a>	<a href="#">403310</a>	<a href="#">REP/MAINT</a>						
		15,700	-7,000	8,700	2,412.70	.00	6,287.30	27.7%
<a href="#">10031000</a>	<a href="#">403315</a>	<a href="#">VEH REP/MN</a>						
		25,500	0	25,500	25,656.45	.00	-156.45	100.6%*
<a href="#">10031000</a>	<a href="#">403320</a>	<a href="#">MAINTCONT</a>						
		19,300	0	19,300	17,459.49	.00	1,840.51	90.5%
<a href="#">10031000</a>	<a href="#">403600</a>	<a href="#">ADVERT</a>						
		1,000	0	1,000	.00	.00	1,000.00	.0%
<a href="#">10031000</a>	<a href="#">405210</a>	<a href="#">POSTAL</a>						
		2,000	0	2,000	1,551.62	.00	448.38	77.6%
<a href="#">10031000</a>	<a href="#">405230</a>	<a href="#">TELECOMM</a>						
		37,000	0	37,000	41,482.53	.00	-4,482.53	112.1%*
<a href="#">10031000</a>	<a href="#">405305</a>	<a href="#">VEHICLEINS</a>						
		18,240	0	18,240	19,981.00	.00	-1,741.00	109.5%*
<a href="#">10031000</a>	<a href="#">405410</a>	<a href="#">LEASEMENT</a>						
		2,300	0	2,300	2,240.06	.00	59.94	97.4%
<a href="#">10031000</a>	<a href="#">405510</a>	<a href="#">MILEAGE</a>						
		0	0	0	153.79	.00	-153.79	100.0%*
<a href="#">10031000</a>	<a href="#">405530</a>	<a href="#">SUB&amp;LODG</a>						
		5,000	0	5,000	2,446.87	.00	2,553.13	48.9%
<a href="#">10031000</a>	<a href="#">405540</a>	<a href="#">CONVEDUC</a>						
		37,200	13,000	50,200	33,183.79	.00	17,016.21	66.1%
<a href="#">10031000</a>	<a href="#">405550</a>	<a href="#">EXTRADITON</a>						
		1,000	0	1,000	169.10	.00	830.90	16.9%
<a href="#">10031000</a>	<a href="#">405810</a>	<a href="#">DUES</a>						
		2,200	0	2,200	2,636.75	.00	-436.75	119.9%*
<a href="#">10031000</a>	<a href="#">406001</a>	<a href="#">OFFSUPL</a>						
		8,500	0	8,500	5,940.90	.00	2,559.10	69.9%
<a href="#">10031000</a>	<a href="#">406002</a>	<a href="#">FOODSUPL</a>						
		0	0	0	1,720.07	.00	-1,720.07	100.0%*
<a href="#">10031000</a>	<a href="#">406003</a>	<a href="#">AGRICSUPL</a>						
		500	0	500	898.85	.00	-398.85	179.8%*
<a href="#">10031000</a>	<a href="#">406008</a>	<a href="#">VEHFUEL</a>						
		85,000	0	85,000	76,801.69	.00	8,198.31	90.4%
<a href="#">10031000</a>	<a href="#">406009</a>	<a href="#">VEHSUPL</a>						
		7,000	7,000	14,000	19,186.11	.00	-5,186.11	137.0%*
<a href="#">10031000</a>	<a href="#">406010</a>	<a href="#">POLICESUPL</a>						
		12,000	0	12,000	13,753.61	.00	-1,753.61	114.6%*
<a href="#">10031000</a>	<a href="#">406011</a>	<a href="#">UNIFORMS</a>						
		10,000	2,638	12,638	16,296.27	.00	-3,658.31	128.9%*
<a href="#">10031000</a>	<a href="#">406014</a>	<a href="#">OTHEROPER</a>						
		1,000	0	1,000	1,062.27	.00	-62.27	106.2%*

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
<u>10031000 408102 FURN/FIX</u>	0	0	0	335.59	.00	-335.59	100.0%*
<u>10031000 408103 COMMEQUIP</u>	2,000	0	2,000	.00	.00	2,000.00	.0%
TOTAL SHERIFF	2,392,411	-20,223	2,372,188	2,349,602.26	.00	22,585.39	99.0%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
320 E911							
10032000 401100 SAL & WAGE	410,893	8,942	419,835	443,551.12	.00	-23,716.12	105.6%*
10032000 401300 PT SAL/WAG	18,300	0	18,300	3,977.16	.00	14,322.84	21.7%
10032000 401310 OT PAY	25,000	0	25,000	21,542.87	.00	3,457.13	86.2%
10032000 401320 HOLDISCPAY	20,000	0	20,000	28,397.14	.00	-8,397.14	142.0%*
10032000 401333 ED STIPEND	3,500	0	3,500	.00	.00	3,500.00	.0%
10032000 402100 FICA	36,054	0	36,054	36,608.69	.00	-54.69	101.5%*
10032000 402210 VRS	52,800	-9,327	43,473	43,415.86	.00	56.87	99.9%
10032000 402250 DISABILITY	0	0	0	415.41	.00	-415.41	100.0%*
10032000 402300 MEDINS	67,005	-7,065	59,940	63,889.51	.00	-3,949.51	106.6%*
10032000 402400 GRPLIFE	4,890	0	4,890	4,795.93	.00	94.07	98.1%
10032000 402700 WORKCOMP	443	-65	378	377.25	.00	.75	99.8%
10032000 403100 PROFSVCS	0	11,984	11,984	11,984.00	.00	.00	100.0%
10032000 403161 E911 SIGNS	6,506	0	6,506	10,679.60	.00	-4,173.60	164.2%*
10032000 403300 CONTRSVC	38,077	0	38,077	48,325.00	.00	-10,248.00	126.9%*
10032000 403310 REP/MAINT	6,000	0	6,000	1,733.49	.00	4,266.51	28.9%
10032000 403320 E911O MAINTCONT	58,251	0	58,251	37,097.73	.00	21,153.27	63.7%
10032000 405230 TELECOMM	63,500	0	63,500	64,244.51	.00	-744.51	101.2%*
10032000 405410 LEASERENT	1,320	233	1,553	965.82	.00	587.35	62.2%
10032000 405510 MILEAGE	500	0	500	626.86	.00	-126.86	125.4%*
10032000 405530 SUB&LODG	2,000	0	2,000	316.54	.00	1,683.46	15.8%
10032000 405540 CONVEDUC	2,000	0	2,000	247.19	.00	1,752.81	12.4%
10032000 405540 12WEP CONVEDUC	0	2,000	2,000	1,157.00	.00	843.00	57.9%
10032000 405810 DUES	500	0	500	481.00	.00	19.00	96.2%
10032000 406001 OFFSUPL	2,000	0	2,000	998.55	.00	1,001.45	49.9%
10032000 406011 UNIFORMS	1,200	0	1,200	1,342.31	.00	-142.31	111.9%*
10032000 406014 OTHEROPER	1,500	0	1,500	1,226.35	.00	273.65	81.8%
10032000 408107 EDPEQUIP	2,000	0	2,000	2,543.70	.00	-543.70	127.2%*
TOTAL E911	824,239	6,702	830,941	830,940.59	.00	.31	100.0%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
<hr/>							
325 FIRE AND RESCUE SQUAD							
<u>10032500 402750 LINEOFDUTY</u>	17,030	-4,024	13,006	12,127.00	.00	879.00	93.2%
<u>10032500 405308 GENLIAB</u>	174,968	0	174,968	133,500.04	.00	41,467.96	76.3%
<u>10032500 405625 F&amp;R OPER</u>	363,906	0	363,906	363,906.00	.00	.00	100.0%
<u>10032500 405626 F&amp;R CAP</u>	240,000	0	240,000	240,000.00	.00	.00	100.0%
<u>10032500 405627 STFRE STATEFIRE</u>	61,610	19,520	81,130	81,130.00	.00	.00	100.0%
<u>10032500 405628 24LFE 2 FOR LIFE</u>	24,590	0	24,590	24,400.48	.00	189.52	99.2%
TOTAL FIRE AND RESCUE SQUAD	882,104	15,496	897,600	855,063.52	.00	42,536.48	95.3%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
330 FOREST WARDEN							
<a href="#">10033000 405660 FIRESUPPR</a>	9,053	0	9,053	9,011.97	.00	41.03	99.5%
TOTAL FOREST WARDEN	9,053	0	9,053	9,011.97	.00	41.03	99.5%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
335 CORRECTION AND DETENTION							
<a href="#">10033500 401114 BOARDCOMP</a>	2,208	-169	2,039	2,004.16	.00	34.84	98.3%
<a href="#">10033500 402100 FICA</a>	162	0	162	150.89	.00	11.11	93.1%
<a href="#">10033500 403840 CONFINE</a>	173,255	0	173,255	208,574.04	.00	-35,319.04	120.4%*
<a href="#">10033500 406002 FOODSUPL</a>	500	0	500	127.41	.00	372.59	25.5%
<a href="#">10033500 407003 BRJDCDEBT</a>	75,000	0	75,000	69,286.00	.00	5,714.00	92.4%
<a href="#">10033500 407004 CVRJ COP</a>	809,300	0	809,300	805,270.26	.00	4,029.74	99.5%
<a href="#">10033500 407005 CVRJDEBT</a>	32,672	0	32,672	.00	.00	32,672.00	.0%
TOTAL CORRECTION AND DETENTION	1,093,097	-169	1,092,928	1,085,412.76	.00	7,515.24	99.3%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
340 BUILDING INSPECTIONS							
<a href="#">10034000 401100 SAL &amp; WAGE</a>	167,500	4,956	172,456	172,596.90	.00	-140.90	100.1%*
<a href="#">10034000 402100 FICA</a>	12,814	379	13,193	12,432.29	.00	760.71	94.2%
<a href="#">10034000 402210 VRS</a>	21,524	-3,391	18,133	18,459.56	.00	-326.31	101.8%*
<a href="#">10034000 402300 MEDINS</a>	30,815	-8,375	22,440	22,402.00	.00	38.00	99.8%
<a href="#">10034000 402400 GRPLIFE</a>	1,993	59	2,052	2,058.66	.00	-6.66	100.3%*
<a href="#">10034000 402700 WORKCOMP</a>	2,180	855	3,035	3,035.01	.00	-.01	100.0%*
<a href="#">10034000 403100 PROFSVCS</a>	650	0	650	.00	.00	650.00	.0%
<a href="#">10034000 403300 CONTRSVC</a>	1,000	0	1,000	1,998.00	.00	-998.00	199.8%*
<a href="#">10034000 405210 POSTAL</a>	400	0	400	422.05	.00	-22.05	105.5%*
<a href="#">10034000 405230 TELECOMM</a>	2,000	0	2,000	966.46	.00	1,033.54	48.3%
<a href="#">10034000 405410 LEASERENT</a>	0	0	0	1.40	.00	-1.40	100.0%*
<a href="#">10034000 405540 CONVEDUC</a>	300	0	300	.00	.00	300.00	.0%
<a href="#">10034000 405810 DUES</a>	175	0	175	170.00	.00	5.00	97.1%
<a href="#">10034000 405997 SURCHG</a>	2,700	0	2,700	2,646.27	.00	53.73	98.0%
<a href="#">10034000 406001 OFFSUPL</a>	1,500	0	1,500	575.40	.00	924.60	38.4%
<a href="#">10034000 406008 VEHFUEL</a>	4,000	0	4,000	2,792.23	.00	1,207.77	69.8%
<a href="#">10034000 406012 BOOKS</a>	600	0	600	555.30	.00	44.70	92.6%
TOTAL BUILDING INSPECTIONS	250,151	-5,517	244,634	241,111.53	.00	3,522.72	98.6%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
345 EMERGENCY MANAGEMENT							
<a href="#">10034500 401100 SAL &amp; WAGE</a>	53,040	1,591	54,631	54,630.95	.00	.05	100.0%
<a href="#">10034500 402100 FICA</a>	4,059	122	4,181	4,165.60	.00	15.40	99.6%
<a href="#">10034500 402210 VRS</a>	6,817	-1,072	5,745	5,829.89	.00	-85.01	101.5%*
<a href="#">10034500 402300 MEDINS</a>	8,960	-3,080	5,880	5,804.00	.00	76.00	98.7%
<a href="#">10034500 402400 GRPLIFE</a>	631	19	650	644.24	.00	5.76	99.1%
<a href="#">10034500 402700 WORKCOMP</a>	60	-11	49	48.90	.00	.10	99.8%
<a href="#">10034500 403100 PROFSVCS</a>	297,694	150,000	447,694	366,466.41	.00	81,227.59	81.9%
<a href="#">10034500 403500 PRINTING</a>	300	0	300	.00	.00	300.00	.0%
<a href="#">10034500 403600 ADVERT</a>	1,000	0	1,000	641.96	.00	358.04	64.2%
<a href="#">10034500 405510 MILEAGE</a>	100	0	100	.00	.00	100.00	.0%
<a href="#">10034500 405530 SUB&amp;LODG</a>	500	0	500	1,066.20	.00	-566.20	213.2%*
<a href="#">10034500 405540 CONVEDUC</a>	21,050	0	21,050	13,224.57	.00	7,825.43	62.8%
<a href="#">10034500 405810 DUES</a>	300	0	300	75.00	.00	225.00	25.0%
<a href="#">10034500 406001 OFFSUPL</a>	300	0	300	447.41	.00	-147.41	149.1%*
<a href="#">10034500 406008 VEHFUEL</a>	1,500	0	1,500	975.76	.00	524.24	65.1%
<a href="#">10034500 406012 BOOKS</a>	200	0	200	.00	.00	200.00	.0%
<a href="#">10034500 406020 EMERSUPP</a>	500	0	500	300.16	.00	199.84	60.0%
<a href="#">10034500 408102 FURN/FIX</a>	0	0	0	84.01	.00	-84.01	100.0%*
TOTAL EMERGENCY MANAGEMENT	397,011	147,569	544,580	454,405.06	.00	90,174.82	83.4%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
350 ANIMAL CONTROL							
<u>10035000 401100 SAL &amp; WAGE</u>	72,719	-8,942	63,777	58,083.90	.00	5,693.10	91.1%
<u>10035000 401310 OT PAY</u>	4,500	0	4,500	1,734.93	.00	2,765.07	38.6%
<u>10035000 401320 HOLDISCPAY</u>	0	0	0	479.45	.00	-479.45	100.0%*
<u>10035000 402100 FICA</u>	5,908	0	5,908	4,550.81	.00	1,357.19	77.0%
<u>10035000 402210 VRS</u>	9,344	-1,651	7,693	5,918.12	.00	1,775.16	76.9%
<u>10035000 402300 MEDINS</u>	12,004	-6,124	5,880	9,555.00	.00	-3,675.00	162.5%*
<u>10035000 402400 GRPLIFE</u>	866	0	866	653.24	.00	212.76	75.4%
<u>10035000 402600 UNEMPL</u>	0	0	0	1,512.00	.00	-1,512.00	100.0%*
<u>10035000 402700 WORKCOMP</u>	755	373	1,128	1,127.15	.00	.85	99.9%
<u>10035000 402750 LINEOFDUTY</u>	693	0	693	703.00	.00	-10.00	101.4%*
<u>10035000 403100 PROFSVCS</u>	500	0	500	826.85	.00	-326.85	165.4%*
<u>10035000 403300 CONTRSVC</u>	128,500	0	128,500	129,276.25	.00	-776.25	100.6%*
<u>10035000 403310 REP/MAINT</u>	500	0	500	.00	.00	500.00	.0%
<u>10035000 403315 VEH REP/MN</u>	2,500	0	2,500	689.51	.00	1,810.49	27.6%
<u>10035000 403600 ADVERT</u>	350	0	350	.00	.00	350.00	.0%
<u>10035000 405230 TELECOMM</u>	1,265	0	1,265	189.22	.00	1,075.78	15.0%
<u>10035000 405305 VEHICLEINS</u>	1,000	0	1,000	974.70	.00	25.30	97.5%
<u>10035000 405530 SUB&amp;LODG</u>	1,000	0	1,000	1,107.67	.00	-107.67	110.8%*
<u>10035000 405540 CONVEDUC</u>	500	0	500	500.00	.00	.00	100.0%
<u>10035000 405820 CLAIMS</u>	2,500	0	2,500	.00	.00	2,500.00	.0%
<u>10035000 405825 S&amp;N TAX</u>	1,000	0	1,000	881.51	.00	118.49	88.2%
<u>10035000 406001 OFFSUPL</u>	500	0	500	268.67	.00	231.33	53.7%
<u>10035000 406003 AGRICSUPL</u>	400	0	400	260.93	.00	139.07	65.2%
<u>10035000 406008 VEHFUEL</u>	5,000	0	5,000	2,195.53	.00	2,804.47	43.9%
<u>10035000 406009 VEHSUPL</u>	600	0	600	513.76	.00	86.24	85.6%
<u>10035000 406011 UNIFORMS</u>	1,000	0	1,000	1,355.00	.00	-355.00	135.5%*
TOTAL ANIMAL CONTROL	253,904	-16,344	237,560	223,357.20	.00	14,203.08	94.0%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
<hr/>							
410 LITTER							
<u>10041000 403100 PROFSVCS</u>	0	13,500	13,500	.00	.00	13,500.00	.0%
<u>10041000 403100 ALIED PROFSVCS</u>	2,700	0	2,700	.00	.00	2,700.00	.0%
<u>10041000 406014 OTHEROPER</u>	8,000	3,163	11,163	27,362.02	.00	-16,199.02	245.1%*
TOTAL LITTER	10,700	16,663	27,363	27,362.02	.00	.98	100.0%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
415 FACILITIES							
<a href="#">10041500 401100 SAL &amp; WAGE</a>	294,686	7,556	302,242	298,432.93	.00	3,809.07	98.7%
<a href="#">10041500 401310 OT PAY</a>	8,000	0	8,000	12,015.08	.00	-4,015.08	150.2%*
<a href="#">10041500 402100 FICA</a>	23,155	578	23,733	23,215.92	.00	517.08	97.8%
<a href="#">10041500 402210 VRS</a>	37,867	-6,062	31,805	31,363.64	.00	441.47	98.6%
<a href="#">10041500 402250 DISABILITY</a>	0	0	0	124.65	.00	-124.65	100.0%*
<a href="#">10041500 402300 MEDINS</a>	56,474	-3,554	52,920	52,698.25	.00	221.75	99.6%
<a href="#">10041500 402400 GRPLIFE</a>	3,507	90	3,597	3,453.25	.00	143.75	96.0%
<a href="#">10041500 402700 WORKCOMP</a>	6,803	-797	6,006	6,005.96	.00	.04	100.0%
<a href="#">10041500 403100 PROFSVCS</a>	5,000	2,800	7,800	4,568.96	.00	3,231.04	58.6%
<a href="#">10041500 403300 CONTRSVC</a>	46,000	0	46,000	50,089.01	.00	-4,089.01	108.9%*
<a href="#">10041500 403310 REP/MAINT</a>	180,000	0	180,000	189,291.42	.00	-9,291.42	105.2%*
<a href="#">10041500 403315 VEH REP/MN</a>	20,000	0	20,000	7,551.42	.00	12,448.58	37.8%
<a href="#">10041500 403600 ADVERT</a>	350	0	350	.00	.00	350.00	.0%
<a href="#">10041500 403700 LAUNDRY</a>	8,000	0	8,000	7,794.21	.00	205.79	97.4%
<a href="#">10041500 405210 POSTAL</a>	350	0	350	31.60	.00	318.40	9.0%
<a href="#">10041500 405230 TELECOMM</a>	5,500	0	5,500	2,794.76	.00	2,705.24	50.8%
<a href="#">10041500 405305 VEHICLEINS</a>	16,000	0	16,000	12,183.75	.00	3,816.25	76.1%
<a href="#">10041500 405410 LEASERENT</a>	1,200	0	1,200	445.70	.00	754.30	37.1%
<a href="#">10041500 405510 MILEAGE</a>	200	0	200	.00	.00	200.00	.0%
<a href="#">10041500 405530 SUB&amp;LODG</a>	1,000	0	1,000	132.75	.00	867.25	13.3%
<a href="#">10041500 405540 CONVEDUC</a>	3,000	0	3,000	275.00	.00	2,725.00	9.2%
<a href="#">10041500 405810 DUES</a>	300	0	300	.00	.00	300.00	.0%
<a href="#">10041500 406001 OFFSUPL</a>	1,500	0	1,500	255.47	.00	1,244.53	17.0%
<a href="#">10041500 406003 AGRICSUPL</a>	15,000	0	15,000	14,131.20	.00	868.80	94.2%
<a href="#">10041500 406004 GENLSUPL</a>	25,000	0	25,000	23,462.91	.00	1,537.09	93.9%
<a href="#">10041500 406005 JANITSUPL</a>	15,000	0	15,000	15,359.73	.00	-359.73	102.4%*
<a href="#">10041500 406008 VEHFUEL</a>	23,000	0	23,000	16,320.63	.00	6,679.37	71.0%
<a href="#">10041500 406009 VEHSUPL</a>	3,500	0	3,500	3,500.00	.00	.00	100.0%
<a href="#">10041500 408101 MACHEQUIP</a>	4,500	0	4,500	1,675.90	.00	2,824.10	37.2%
<a href="#">10041500 408103 COMMEQUIP</a>	500	0	500	.00	.00	500.00	.0%
TOTAL FACILITIES	805,392	611	806,003	777,174.10	.00	28,829.01	96.4%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
<hr/>							
420 GENERAL SERVICES							
<u>10042000 403320 MAINTCONT</u>	115,200	0	115,200	92,082.48	.00	23,117.52	79.9%
<u>10042000 405110 ELECSVCS</u>	200,000	0	200,000	226,313.10	.00	-26,313.10	113.2%*
<u>10042000 405120 HEATSVCS</u>	110,000	0	110,000	85,168.55	.00	24,831.45	77.4%
<u>10042000 405130 WATRSVCS</u>	8,500	0	8,500	13,027.49	.00	-4,527.49	153.3%*
<u>10042000 405135 SEWRSVCS</u>	2,800	0	2,800	3,451.05	.00	-651.05	123.3%*
<u>10042000 405140 STREETLIT</u>	8,800	0	8,800	6,621.62	.00	2,178.38	75.2%
<u>10042000 405230 TELECOMM</u>	15,000	0	15,000	16,715.10	.00	-1,715.10	111.4%*
<u>10042000 405304 PROPINS</u>	35,000	0	35,000	35,114.30	.00	-114.30	100.3%*
<u>10042000 405308 GENLIAB</u>	8,000	0	8,000	7,527.00	.00	473.00	94.1%
<u>10042000 405410 LEASERENT</u>	24,000	0	24,000	24,000.00	.00	.00	100.0%
TOTAL GENERAL SERVICES	527,300	0	527,300	510,020.69	.00	17,279.31	96.7%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
425 PUBLIC WORKS							
<a href="#">10042500 401100 SAL &amp; WAGE</a>	165,977	4,455	170,432	170,432.00	.00	.00	100.0%
<a href="#">10042500 402100 FICA</a>	12,697	341	13,038	12,182.62	.00	855.38	93.4%
<a href="#">10042500 402210 VRS</a>	21,328	-3,398	17,930	18,187.84	.00	-257.65	101.4%*
<a href="#">10042500 402300 MEDINS</a>	20,504	4,276	24,780	24,780.00	.00	.00	100.0%
<a href="#">10042500 402400 GRPLIFE</a>	1,975	53	2,028	2,009.54	.00	18.46	99.1%
<a href="#">10042500 402700 WORKCOMP</a>	2,132	721	2,853	2,852.86	.00	.14	100.0%
<a href="#">10042500 403100 PROFSVCS</a>	1,500	0	1,500	.00	.00	1,500.00	.0%
<a href="#">10042500 403182 SFTWREFEE</a>	4,000	0	4,000	.00	.00	4,000.00	.0%
<a href="#">10042500 405230 TELECOMM</a>	2,000	0	2,000	1,655.86	.00	344.14	82.8%
<a href="#">10042500 405410 LEASERENT</a>	2,500	0	2,500	2,812.78	.00	-312.78	112.5%*
<a href="#">10042500 405530 SUB&amp;LODG</a>	1,000	0	1,000	.00	.00	1,000.00	.0%
<a href="#">10042500 405540 CONVEDUC</a>	2,500	0	2,500	6.00	.00	2,494.00	.2%
<a href="#">10042500 406001 OFFSUPL</a>	2,000	0	2,000	903.88	.00	1,096.12	45.2%
<a href="#">10042500 406008 VEHFUEL</a>	2,500	0	2,500	353.50	.00	2,146.50	14.1%
<a href="#">10042500 406021 ADPSUPL</a>	3,000	399	3,399	399.00	.00	3,000.00	11.7%
TOTAL PUBLIC WORKS	245,613	6,847	252,460	236,575.88	.00	15,884.31	93.7%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
430 CONVENIENCE CENTER							
<a href="#">10043000 401100 SAL &amp; WAGE</a>	0	0	0	485.28	.00	-485.28	100.0%*
<a href="#">10043000 401300 PT SAL/WAG</a>	43,942	0	43,942	51,527.38	.00	-7,585.38	117.3%*
<a href="#">10043000 401310 OT PAY</a>	0	0	0	2,099.42	.00	-2,099.42	100.0%*
<a href="#">10043000 402100 FICA</a>	3,362	0	3,362	4,127.73	.00	-765.73	122.8%*
<a href="#">10043000 402300 MEDINS</a>	0	0	0	379.06	.00	-379.06	100.0%*
<a href="#">10043000 402700 WORKCOMP</a>	1,611	489	2,100	2,099.86	.00	.14	100.0%
<a href="#">10043000 403170 PERMITFEE</a>	1,200	0	1,200	1,067.00	.00	133.00	88.9%
<a href="#">10043000 403300 CONTRSVC</a>	72,500	0	72,500	51,769.70	.00	20,730.30	71.4%
<a href="#">10043000 403310 REP/MAINT</a>	19,000	0	19,000	7,564.66	.00	11,435.34	39.8%
<a href="#">10043000 405230 TELECOMM</a>	1,200	0	1,200	1,101.78	.00	98.22	91.8%
<a href="#">10043000 405410 LEASERENT</a>	800	0	800	780.00	.00	20.00	97.5%
<a href="#">10043000 406001 OFFSUPL</a>	550	0	550	122.73	.00	427.27	22.3%
<a href="#">10043000 406008 VEHFUEL</a>	500	0	500	235.80	.00	264.20	47.2%
TOTAL CONVENIENCE CENTER	144,665	489	145,154	123,360.40	.00	21,793.60	85.0%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
435 LANDFILL POST CLOSURE							
<u>10043500 403100 PROFSVCS</u>	30,000	0	30,000	23,372.00	.00	6,628.00	77.9%
<u>10043500 403300 CONTRSVC</u>	7,500	0	7,500	.00	.00	7,500.00	.0%
TOTAL LANDFILL POST CLOSURE	37,500	0	37,500	23,372.00	.00	14,128.00	62.3%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
510 HEALTH							
<u>10051000 403300 CONTRSVC</u>	257,435	0	257,435	257,435.00	.00	.00	100.0%
<u>10051000 405230 TELECOMM</u>	0	0	0	-327.94	.00	327.94	100.0%
TOTAL HEALTH	257,435	0	257,435	257,107.06	.00	327.94	99.9%

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ACCOUNTS FOR:  
100 GENERAL FUND

ORIGINAL  
APPROP

TRANFRS/  
ADJSTMTS

REVISED  
BUDGET

YTD EXPENDED

ENCUMBRANCES

AVAILABLE  
BUDGET

PCT  
USED

515 VJCCCA

[10051500 403100 VJCCA PROFSVCS](#)

6,585

0

6,585

5,900.00

.00

685.00

89.6%

TOTAL VJCCCA

6,585

0

6,585

5,900.00

.00

685.00

89.6%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
520 CSA							
<a href="#">10052000 401100 SAL &amp; WAGE</a>	60,132	902	61,034	61,034.03	.00	-.03	100.0%*
<a href="#">10052000 402100 FICA</a>	4,600	69	4,669	4,648.43	.00	20.57	99.6%
<a href="#">10052000 402210 VRS</a>	7,727	-1,290	6,437	6,513.34	.00	-76.81	101.2%*
<a href="#">10052000 402300 MEDINS</a>	6,001	-121	5,880	5,804.00	.00	76.00	98.7%
<a href="#">10052000 402400 GRPLIFE</a>	716	11	727	719.64	.00	7.36	99.0%
<a href="#">10052000 402700 WORKCOMP</a>	62	-6	56	55.44	.00	.56	99.0%
<a href="#">10052000 403100 PROFSVCS</a>	1,000	0	1,000	748.00	.00	252.00	74.8%
<a href="#">10052000 403300 CONTRSVC</a>	600	0	600	.00	.00	600.00	.0%
<a href="#">10052000 405210 POSTAL</a>	1,000	0	1,000	809.75	.00	190.25	81.0%
<a href="#">10052000 405230 TELECOMM</a>	150	0	150	108.27	.00	41.73	72.2%
<a href="#">10052000 405410 LEASERENT</a>	540	0	540	591.35	.00	-51.35	109.5%*
<a href="#">10052000 405510 MILEAGE</a>	560	0	560	254.58	.00	305.42	45.5%
<a href="#">10052000 405530 SUB&amp;LODG</a>	700	0	700	353.65	.00	346.35	50.5%
<a href="#">10052000 405540 CONVEDUC</a>	750	0	750	150.00	.00	600.00	20.0%
<a href="#">10052000 406001 OFFSUPL</a>	1,500	0	1,500	618.78	.00	881.22	41.3%
<a href="#">10052000 406002 FOODSUPL</a>	500	0	500	219.90	.00	280.10	44.0%
<a href="#">10052000 408102 FURN/FIX</a>	250	0	250	84.01	.00	165.99	33.6%
TOTAL CSA	86,788	-435	86,353	82,713.17	.00	3,639.36	95.8%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
525 CSA PURCHASE OF SERVICES							
<a href="#">10052500 405713 FF4ECOMSV</a>	5,000	0	5,000	649.80	.00	4,350.20	13.0%
<a href="#">10052500 405714 MANDFFP</a>	20,000	0	20,000	-11,753.01	.00	31,753.01	-58.8%
<a href="#">10052500 405715 MANDFOP</a>	30,000	0	30,000	7,926.00	.00	22,074.00	26.4%
<a href="#">10052500 405716 TFCLRCONG</a>	315,000	-59,514	255,486	47,834.64	.00	207,651.36	18.7%
<a href="#">10052500 405718 COMMSVC</a>	525,000	0	525,000	434,514.00	.00	90,486.00	82.8%
<a href="#">10052500 405719 COMMSVTR</a>	31,500	0	31,500	14,856.64	.00	16,643.36	47.2%
<a href="#">10052500 405720 NONMCOMM</a>	26,170	0	26,170	.00	.00	26,170.00	.0%
<a href="#">10052500 405721 RESCONG</a>	367,500	0	367,500	495,462.00	.00	-127,962.00	134.8%*
<a href="#">10052500 405723 MSPEDPRIV</a>	315,000	386,000	701,000	861,610.25	.00	-160,610.25	122.9%*
<a href="#">10052500 405724 MSVCINSCH</a>	0	0	0	14,537.50	.00	-14,537.50	100.0%*
<a href="#">10052500 405725 MFCLCRESCG</a>	157,500	0	157,500	40,285.51	.00	117,214.49	25.6%
<a href="#">10052500 405726 THERFC4E</a>	10,000	0	10,000	.00	.00	10,000.00	.0%
<a href="#">10052500 405729 SPECFC</a>	0	0	0	45,891.65	.00	-45,891.65	100.0%*
<a href="#">10052500 405732 EDUCCONG</a>	210,000	0	210,000	136,116.00	.00	73,884.00	64.8%
<a href="#">10052500 405742 WSS</a>	19,845	0	19,845	.00	.00	19,845.00	.0%
TOTAL CSA PURCHASE OF SERVICES	2,032,515	326,486	2,359,001	2,087,930.98	.00	271,070.02	88.5%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
710 PARKS & RECREATION							
<a href="#">10071000 401100 SAL &amp; WAGE</a>	185,653	3,466	189,119	191,151.98	.00	-2,032.98	101.1%*
<a href="#">10071000 401300 PT SAL/WAG</a>	60,556	26,465	87,021	51,509.67	.00	35,511.33	59.2%
<a href="#">10071000 401310 OT PAY</a>	1,100	0	1,100	671.90	.00	428.10	61.1%
<a href="#">10071000 402100 FICA</a>	18,919	2,290	21,209	18,107.09	.00	3,101.91	85.4%
<a href="#">10071000 402210 VRS</a>	23,856	-3,926	19,930	19,755.42	.00	174.58	99.1%
<a href="#">10071000 402250 DISABILITY</a>	0	0	0	145.20	.00	-145.20	100.0%*
<a href="#">10071000 402300 MEDINS</a>	32,504	-12,524	19,980	28,615.50	.00	-8,635.50	143.2%*
<a href="#">10071000 402400 GRPLIFE</a>	2,209	41	2,250	2,179.74	.00	70.26	96.9%
<a href="#">10071000 402700 WORKCOMP</a>	3,198	3,062	6,260	6,259.20	.00	.80	100.0%
<a href="#">10071000 403100 PROFSVCS</a>	32,500	-2,594	29,906	29,650.86	.00	255.14	99.1%
<a href="#">10071000 403300 CONTRSVC</a>	6,660	0	6,660	14,982.35	.00	-8,322.35	225.0%*
<a href="#">10071000 403310 REP/MAINT</a>	0	0	0	125.00	.00	-125.00	100.0%*
<a href="#">10071000 403500 PRINTING</a>	8,000	0	8,000	5,349.84	.00	2,650.16	66.9%
<a href="#">10071000 403600 ADVERT</a>	600	0	600	2,305.05	.00	-1,705.05	384.2%*
<a href="#">10071000 405210 POSTAL</a>	500	0	500	396.79	.00	103.21	79.4%
<a href="#">10071000 405230 TELECOMM</a>	9,900	0	9,900	8,183.25	.00	1,716.75	82.7%
<a href="#">10071000 405410 LEASERENT</a>	4,090	526	4,616	7,307.43	.00	-2,691.01	158.3%*
<a href="#">10071000 405510 MILEAGE</a>	200	0	200	.00	.00	200.00	.0%
<a href="#">10071000 405530 SUB&amp;LODG</a>	1,500	0	1,500	1,817.37	.00	-317.37	121.2%*
<a href="#">10071000 405540 CONVEDUC</a>	2,000	0	2,000	2,053.95	.00	-53.95	102.7%*
<a href="#">10071000 405810 DUES</a>	500	0	500	1,667.50	.00	-1,167.50	333.5%*
<a href="#">10071000 406001 OFFSUPL</a>	2,500	0	2,500	2,814.96	.00	-314.96	112.6%*
<a href="#">10071000 406008 VEHFUEL</a>	3,000	0	3,000	3,407.53	.00	-407.53	113.6%*
<a href="#">10071000 406011 UNIFORMS</a>	420	0	420	637.00	.00	-217.00	151.7%*
<a href="#">10071000 406012 BOOKS</a>	0	0	0	393.32	.00	-393.32	100.0%*
<a href="#">10071000 406013 RECSUPL</a>	38,600	0	38,600	52,937.82	.00	-14,337.82	137.1%*
<a href="#">10071000 406013 AMUSE RECSUPL</a>	20,000	0	20,000	16,923.00	.00	3,077.00	84.6%
<a href="#">10071000 406013 FTBL RECSUPL</a>	3,000	0	3,000	165.00	.00	2,835.00	5.5%
<a href="#">10071000 408102 FURN/FIX</a>	10,000	0	10,000	20,092.19	.00	-10,092.19	200.9%*
<a href="#">10071000 409904 SITEIMPRV</a>	14,500	10,882	25,382	17,284.43	.00	8,097.57	68.1%
TOTAL PARKS & RECREATION	486,465	27,688	514,153	506,890.34	.00	7,263.08	98.6%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
730 LIBRARY							
<a href="#">10073000 401100 SAL &amp; WAGE</a>	112,905	3,601	116,506	115,425.78	.00	1,080.22	99.1%
<a href="#">10073000 401300 PT SAL/WAG</a>	22,018	0	22,018	21,176.08	.00	841.92	96.2%
<a href="#">10073000 402100 FICA</a>	10,322	275	10,597	10,023.50	.00	573.50	94.6%
<a href="#">10073000 402210 VRS</a>	14,508	-2,264	12,244	12,257.05	.00	-12.74	100.1%*
<a href="#">10073000 402250 DISABILITY</a>	0	0	0	143.90	.00	-143.90	100.0%*
<a href="#">10073000 402300 MEDINS</a>	14,502	-402	14,100	14,100.00	.00	.00	100.0%
<a href="#">10073000 402400 GRPLIFE</a>	1,344	43	1,387	1,081.13	.00	305.87	77.9%
<a href="#">10073000 402700 WORKCOMP</a>	132	-24	108	107.18	.00	.82	99.2%
<a href="#">10073000 403310 REP/MAINT</a>	1,500	0	1,500	.00	.00	1,500.00	.0%
<a href="#">10073000 403320 MAINTCONT</a>	2,850	0	2,850	2,731.94	.00	118.06	95.9%
<a href="#">10073000 405210 POSTAL</a>	300	0	300	39.20	.00	260.80	13.1%
<a href="#">10073000 405230 TELECOMM</a>	0	17,150	17,150	8,509.50	.00	8,640.50	49.6%
<a href="#">10073000 405230 LIBAD TELECOMM</a>	17,150	-17,150	0	.00	.00	.00	.0%
<a href="#">10073000 405410 LEASERENT</a>	120	0	120	120.00	.00	.00	100.0%
<a href="#">10073000 405530 SUB&amp;LODG</a>	750	0	750	.00	.00	750.00	.0%
<a href="#">10073000 405540 CONVEDUC</a>	750	0	750	89.00	.00	661.00	11.9%
<a href="#">10073000 405810 DUES</a>	150	0	150	150.00	.00	.00	100.0%
<a href="#">10073000 406001 OFFSUPL</a>	8,000	0	8,000	5,670.39	.00	2,329.61	70.9%
<a href="#">10073000 406012 BOOKS</a>	5,000	0	5,000	24,239.11	.00	-19,239.11	484.8%*
<a href="#">10073000 406012 LIBAD BOOKS</a>	64,580	0	64,580	64,579.99	.00	.01	100.0%
<a href="#">10073000 408102 FURN/FIX</a>	550	0	550	.00	.00	550.00	.0%
<a href="#">10073000 408107 EDPEQUIP</a>	9,778	0	9,778	7,993.01	.00	1,784.99	81.7%
TOTAL LIBRARY	287,209	1,229	288,438	288,436.76	.00	1.55	100.0%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
810 COUNTY PLANNER							
<u>10081000 401100 SAL &amp; WAGE</u>	223,546	7,447	230,993	230,031.70	.00	961.30	99.6%
<u>10081000 401310 OT PAY</u>	0	0	0	1,899.21	.00	-1,899.21	100.0%*
<u>10081000 402100 FICA</u>	16,861	570	17,431	16,892.53	.00	538.47	96.9%
<u>10081000 402210 VRS</u>	28,323	-4,456	23,867	24,577.89	.00	-710.43	103.0%*
<u>10081000 402250 DISABILITY</u>	0	0	0	257.08	.00	-257.08	100.0%*
<u>10081000 402300 MEDINS</u>	37,503	1,377	38,880	34,949.19	.00	3,930.81	89.9%
<u>10081000 402400 GRPLIFE</u>	2,623	89	2,712	2,711.05	.00	.95	100.0%
<u>10081000 402700 WORKCOMP</u>	953	1,182	2,135	2,134.40	.00	.60	100.0%
<u>10081000 403300 CONTRSVC</u>	10,000	0	10,000	14,000.00	.00	-4,000.00	140.0%*
<u>10081000 405210 POSTAL</u>	500	0	500	325.01	.00	174.99	65.0%
<u>10081000 405230 TELECOMM</u>	2,000	0	2,000	1,831.89	.00	168.11	91.6%
<u>10081000 405410 LEASERENT</u>	4,000	0	4,000	3,995.00	.00	5.00	99.9%
<u>10081000 405510 MILEAGE</u>	0	0	0	25.76	.00	-25.76	100.0%*
<u>10081000 405530 SUB&amp;LODG</u>	1,000	0	1,000	346.20	.00	653.80	34.6%
<u>10081000 405540 CONVEDUC</u>	1,500	0	1,500	1,617.65	.00	-117.65	107.8%*
<u>10081000 405810 DUES</u>	1,200	0	1,200	1,101.00	.00	99.00	91.8%
<u>10081000 406001 OFFSUPL</u>	2,500	0	2,500	1,774.46	.00	725.54	71.0%
<u>10081000 406008 VEHFUEL</u>	1,000	0	1,000	2,029.59	.00	-1,029.59	203.0%*
<u>10081000 406012 BOOKS</u>	250	0	250	.00	.00	250.00	.0%
<u>10081000 408102 FURN/FIX</u>	1,200	0	1,200	252.01	.00	947.99	21.0%
TOTAL COUNTY PLANNER	334,959	6,209	341,168	340,751.62	.00	416.84	99.9%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
815 PLANNING COMMISSION							
<a href="#">10081500 401114 BOARDCOMP</a>	10,069	3,150	13,219	12,980.95	.00	238.05	98.2%
<a href="#">10081500 402100 FICA</a>	774	0	774	935.23	.00	-161.23	120.8%*
<a href="#">10081500 403100 PROFSVCS</a>	10,000	34,000	44,000	44,000.00	.00	.00	100.0%
<a href="#">10081500 403600 ADVERT</a>	4,000	1,014	5,014	5,014.00	.00	.00	100.0%
<a href="#">10081500 405210 POSTAL</a>	1,500	231	1,731	2,359.12	.00	-628.12	136.3%*
<a href="#">10081500 405510 MILEAGE</a>	200	0	200	100.80	.00	99.20	50.4%
<a href="#">10081500 405530 SUB&amp;LODG</a>	500	0	500	146.91	.00	353.09	29.4%
<a href="#">10081500 405540 CONVEDUC</a>	750	0	750	650.88	.00	99.12	86.8%
TOTAL PLANNING COMMISSION	27,793	38,395	66,188	66,187.89	.00	.11	100.0%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
820 BOARD OF ZONING APPEALS							
<a href="#">10082000 401114 BOARDCOMP</a>	1,200	0	1,200	1,320.00	.00	-120.00	110.0%*
<a href="#">10082000 402100 FICA</a>	100	0	100	100.98	.00	-.98	101.0%*
<a href="#">10082000 403100 PROFSVCS</a>	0	741	741	934.00	.00	-193.00	126.0%*
<a href="#">10082000 403600 ADVERT</a>	0	0	0	61.00	.00	-61.00	100.0%*
<a href="#">10082000 405510 MILEAGE</a>	100	0	100	.00	.00	100.00	.0%
<a href="#">10082000 405540 CONVEDUC</a>	300	0	300	.00	.00	300.00	.0%
<a href="#">10082000 406001 OFFSUPL</a>	0	0	0	24.90	.00	-24.90	100.0%*
TOTAL BOARD OF ZONING APPEALS	1,700	741	2,441	2,440.88	.00	.12	100.0%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
830 ECONOMIC DEVELOPMENT							
<a href="#">10083000 401100 SAL &amp; WAGE</a>	75,908	1,897	77,805	77,805.03	.00	-.03	100.0%*
<a href="#">10083000 402100 FICA</a>	5,807	145	5,952	5,929.98	.00	22.02	99.6%
<a href="#">10083000 402210 VRS</a>	9,754	-1,565	8,189	8,303.09	.00	-114.26	101.4%*
<a href="#">10083000 402300 MEDINS</a>	6,004	-124	5,880	5,880.00	.00	.00	100.0%
<a href="#">10083000 402400 GRPLIFE</a>	903	23	926	917.48	.00	8.52	99.1%
<a href="#">10083000 402700 WORKCOMP</a>	1,058	-987	71	70.16	.00	.84	98.8%
<a href="#">10083000 403100 PROFSVCS</a>	13,000	-1,986	11,014	5,418.41	.00	5,595.59	49.2%
<a href="#">10083000 403500 PRINTING</a>	1,000	0	1,000	.00	.00	1,000.00	.0%
<a href="#">10083000 403600 ADVERT</a>	500	0	500	.00	.00	500.00	.0%
<a href="#">10083000 405210 POSTAL</a>	100	0	100	.00	.00	100.00	.0%
<a href="#">10083000 405230 TELECOMM</a>	900	0	900	651.80	.00	248.20	72.4%
<a href="#">10083000 405510 MILEAGE</a>	500	0	500	12.50	.00	487.50	2.5%
<a href="#">10083000 405530 SUB&amp;LODG</a>	2,000	0	2,000	748.68	.00	1,251.32	37.4%
<a href="#">10083000 405540 CONVEDUC</a>	2,500	0	2,500	2,664.55	.00	-164.55	106.6%*
<a href="#">10083000 405810 DUES</a>	500	0	500	250.00	.00	250.00	50.0%
<a href="#">10083000 406001 OFFSUPL</a>	500	0	500	58.84	.00	441.16	11.8%
<a href="#">10083000 407010 FEDA</a>	1,000	0	1,000	1,000.00	.00	.00	100.0%
<a href="#">10083000 407030 ZXTOURCTR</a>	7,500	0	7,500	4,164.54	.00	3,335.46	55.5%
TOTAL ECONOMIC DEVELOPMENT	129,434	-2,597	126,837	113,875.06	.00	12,961.77	89.8%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
840 COOPERATIVE EXTENSION							
<a href="#">10084000 403300 CONTRSVC</a>	69,911	0	69,911	65,551.08	.00	4,359.92	93.8%
<a href="#">10084000 403310 REP/MAINT</a>	50	0	50	100.00	.00	-50.00	200.0%*
<a href="#">10084000 405230 TELECOMM</a>	1,000	0	1,000	544.49	.00	455.51	54.4%
<a href="#">10084000 405410 LEASERENT</a>	500	0	500	.00	.00	500.00	.0%
<a href="#">10084000 405540 CONVEDUC</a>	1,500	0	1,500	1,460.95	.00	39.05	97.4%
<a href="#">10084000 405810 DUES</a>	375	0	375	350.00	.00	25.00	93.3%
<a href="#">10084000 406001 OFFSUPL</a>	500	0	500	387.60	.00	112.40	77.5%
<a href="#">10084000 406003 AGRICSUPL</a>	1,200	0	1,200	1,380.13	.00	-180.13	115.0%*
<a href="#">10084000 406014 OTHEROPER</a>	1,500	0	1,500	1,479.28	.00	20.72	98.6%
TOTAL COOPERATIVE EXTENSION	76,536	0	76,536	71,253.53	.00	5,282.47	93.1%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
850 NON PROFITS							
<a href="#">10085000 405623 SCVILLFIRE</a>	8,376	0	8,376	8,376.00	.00	.00	100.0%
<a href="#">10085000 405624 SCVILLRESQ</a>	15,000	0	15,000	15,000.00	.00	.00	100.0%
<a href="#">10085000 405670 PVCC</a>	7,396	0	7,396	7,396.00	.00	.00	100.0%
<a href="#">10085000 405671 SBDC</a>	2,500	0	2,500	2,500.00	.00	.00	100.0%
<a href="#">10085000 405672 TJPDC</a>	31,983	0	31,983	31,983.00	.00	.00	100.0%
<a href="#">10085000 405673 S&amp;W</a>	20,000	0	20,000	20,000.00	.00	.00	100.0%
<a href="#">10085000 405674 JABA</a>	83,945	0	83,945	83,945.00	.00	.00	100.0%
<a href="#">10085000 405675 MACAA</a>	49,913	0	49,913	49,913.00	.00	.00	100.0%
<a href="#">10085000 405676 REGION10</a>	89,250	0	89,250	89,250.00	.00	.00	100.0%
<a href="#">10085000 405677 JAUNT</a>	72,141	0	72,141	72,141.00	.00	.00	100.0%
<a href="#">10085000 405678 TJEMS</a>	16,095	0	16,095	16,095.00	.00	.00	100.0%
<a href="#">10085000 405679 CVPED</a>	11,730	0	11,730	11,730.00	.00	.00	100.0%
<a href="#">10085000 405680 PHA</a>	2,100	0	2,100	2,100.00	.00	.00	100.0%
<a href="#">10085000 405681 CYFS</a>	2,100	0	2,100	2,100.00	.00	.00	100.0%
<a href="#">10085000 405682 PWN</a>	3,150	0	3,150	3,150.00	.00	.00	100.0%
<a href="#">10085000 405683 CHIP</a>	51,000	0	51,000	51,000.00	.00	.00	100.0%
<a href="#">10085000 405684 SHE</a>	9,000	0	9,000	9,000.00	.00	.00	100.0%
<a href="#">10085000 405685 OAR</a>	13,261	0	13,261	13,261.00	.00	.00	100.0%
<a href="#">10085000 405686 LEGALAI</a>	4,000	0	4,000	4,000.00	.00	.00	100.0%
<a href="#">10085000 405687 SARA</a>	1,000	0	1,000	1,000.00	.00	.00	100.0%
<a href="#">10085000 405688 STREAMWA</a>	1,750	0	1,750	1,750.00	.00	.00	100.0%
<a href="#">10085000 405691 FLUVHF</a>	16,000	0	16,000	16,000.00	.00	.00	100.0%
<a href="#">10085000 405692 ARTS ARTS</a>	10,000	0	10,000	10,000.00	.00	.00	100.0%
<a href="#">10085000 405693 MUSEUM</a>	525	0	525	525.00	.00	.00	100.0%
<a href="#">10085000 405694 LEADPROG</a>	1,000	0	1,000	1,000.00	.00	.00	100.0%
<a href="#">10085000 405695 YAC</a>	360	0	360	211.69	.00	148.31	58.8%
<a href="#">10085000 407020 FCOC</a>	3,500	0	3,500	3,500.00	.00	.00	100.0%
TOTAL NON PROFITS	527,075	0	527,075	526,926.69	.00	148.31	100.0%

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COUNTY OF FLUVANNA  
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FOR 2015 12

ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
860 MISCELLANEOUS NON DEPARTMENTAL							
<a href="#">10086000 401100 FT WAGES</a>	160,000	-155,231	4,769	.00	.00	4,769.00	.0%
<a href="#">10086000 402210 VRS</a>	-126,330	138,609	12,279	.00	.00	12,279.13	.0%
<a href="#">10086000 402300 MEDINS</a>	-21,086	22,972	1,886	.00	.00	1,886.16	.0%
<a href="#">10086000 403100 PROFSVCS</a>	25,000	0	25,000	26,198.79	.00	-1,198.79	104.8%*
<a href="#">10086000 405860 GRTCONT</a>	25,000	0	25,000	.00	.00	25,000.00	.0%
<a href="#">10086000 405870 BOSCONT</a>	150,000	-59,457	90,543	.00	.00	90,543.00	.0%
<a href="#">10086000 405880 PERSCONTIG</a>	50,000	-28,894	21,106	.00	.00	21,106.00	.0%
TOTAL MISCELLANEOUS NON DEPARTMENTAL	262,584	-82,001	180,583	26,198.79	.00	154,384.50	14.5%

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COUNTY OF FLUVANNA  
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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
870 TRANSFER TO OTHER FUNDS							
<a href="#">10087000 409105 TXFRTOSS</a>	857,413	2,102	859,515	684,033.52	.00	175,481.60	79.6%
<a href="#">10087000 409251 TXFRTOSCH</a>	15,251,745	50	15,251,795	10,573,456.06	.00	4,678,338.94	69.3%
<a href="#">10087000 409302 TXFRTOCIP</a>	2,745,695	-196,690	2,549,005	2,889,481.60	.00	-340,476.60	113.4%*
<a href="#">10087000 409401 TXFRTODBT</a>	7,572,062	0	7,572,062	7,086,725.14	.00	485,336.86	93.6%
<a href="#">10087000 409502 TXFRTOUTL</a>	193,783	0	193,783	.00	.00	193,783.00	.0%
<a href="#">10087000 409505 TXFRTOFSD</a>	0	5,035	5,035	.00	.00	5,035.00	.0%
TOTAL TRANSFER TO OTHER FUNDS	26,620,698	-189,503	26,431,195	21,233,696.32	.00	5,197,498.80	80.3%
TOTAL GENERAL FUND	42,722,682	653,602	43,376,284	37,294,973.43	.00	6,081,310.85	86.0%
TOTAL EXPENSES	42,722,682	653,602	43,376,284	37,294,973.43	.00	6,081,310.85	

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COUNTY OF FLUVANNA  
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ACCOUNTS FOR: 105 SOCIAL SERVICES	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
530 SOCIAL SERVICE ADMINISTRATION							
<a href="#">10553000 401100 SAL &amp; WAGE</a>	1,073,387	37,279	1,110,666	1,008,941.65	.00	101,724.35	90.8%
<a href="#">10553000 401114 BOARDCOMP</a>	4,677	0	4,677	4,759.32	.00	-82.32	101.8%*
<a href="#">10553000 401300 PT SAL/WAG</a>	52,205	0	52,205	46,801.32	.00	5,403.68	89.6%
<a href="#">10553000 401310 OT PAY</a>	0	0	0	38,685.49	.00	-38,685.49	100.0%*
<a href="#">10553000 401320 HOLDISCPAY</a>	8,000	0	8,000	5,078.61	.00	2,921.39	63.5%
<a href="#">10553000 402100 FICA</a>	89,654	0	89,654	80,483.54	.00	9,170.46	89.8%
<a href="#">10553000 402210 VRS</a>	135,335	-24,366	110,969	102,118.58	.00	8,850.54	92.0%
<a href="#">10553000 402250 DISABILITY</a>	0	0	0	614.03	.00	-614.03	100.0%*
<a href="#">10553000 402300 MEDINS</a>	177,955	0	177,955	145,592.79	.00	32,362.21	81.8%
<a href="#">10553000 402400 GRPLIFE</a>	12,533	0	12,533	11,296.97	.00	1,236.03	90.1%
<a href="#">10553000 402600 UNEMPL</a>	0	0	0	2,380.00	.00	-2,380.00	100.0%*
<a href="#">10553000 402700 WORKCOMP</a>	4,505	0	4,505	4,504.28	.00	.72	100.0%
<a href="#">10553000 402830 STAFFDVLV</a>	3,800	0	3,800	3,748.65	.00	51.35	98.6%
<a href="#">10553000 403100 PROFSVCS</a>	41,680	0	41,680	34,415.70	.00	7,264.30	82.6%
<a href="#">10553000 403125 IT SERVICE</a>	16,640	0	16,640	11,350.00	.00	5,290.00	68.2%
<a href="#">10553000 403310 REP/MAINT</a>	16,310	0	16,310	11,048.80	.00	5,261.20	67.7%
<a href="#">10553000 403320 MAINTCONT</a>	13,138	0	13,138	11,203.67	.00	1,934.33	85.3%
<a href="#">10553000 403600 ADVERT</a>	1,400	0	1,400	412.00	.00	988.00	29.4%
<a href="#">10553000 405110 ELECSVCS</a>	12,100	0	12,100	10,487.47	.00	1,612.53	86.7%
<a href="#">10553000 405120 HEATSVCS</a>	2,300	0	2,300	.00	.00	2,300.00	.0%
<a href="#">10553000 405210 POSTAL</a>	7,184	0	7,184	4,473.99	.00	2,710.01	62.3%
<a href="#">10553000 405230 TELECOMM</a>	14,199	0	14,199	14,580.07	.00	-381.07	102.7%*
<a href="#">10553000 405304 PROPINS</a>	5,319	0	5,319	5,265.80	.00	53.20	99.0%
<a href="#">10553000 405410 LEASERENT</a>	14,009	0	14,009	14,009.28	.00	-.28	100.0%*
<a href="#">10553000 405510 MILEAGE</a>	51	0	51	1,005.99	.00	-954.99	1972.5%*
<a href="#">10553000 405530 SUB&amp;LODG</a>	1,750	0	1,750	4,192.61	.00	-2,442.61	239.6%*
<a href="#">10553000 405810 DUES</a>	1,460	0	1,460	735.22	.00	724.78	50.4%
<a href="#">10553000 406001 OFFSUPL</a>	15,000	0	15,000	25,587.72	.00	-10,587.72	170.6%*
<a href="#">10553000 406002 FOODSUPL</a>	420	0	420	507.51	.00	-87.51	120.8%*
<a href="#">10553000 406005 JANITSUPL</a>	300	0	300	180.69	.00	119.31	60.2%
<a href="#">10553000 406008 VEHFUEL</a>	5,760	0	5,760	5,129.60	.00	630.40	89.1%
<a href="#">10553000 408101 MACHEQUIP</a>	758	0	758	2,674.41	.00	-1,916.41	352.8%*
<a href="#">10553000 408102 FURN/FIX</a>	0	0	0	1,651.01	.00	-1,651.01	100.0%*
<a href="#">10553000 408105 VEHICLE</a>	0	0	0	15,933.36	.00	-15,933.36	100.0%*
TOTAL SOCIAL SERVICE ADMINISTRATION	1,731,829	12,913	1,744,742	1,629,850.13	.00	114,891.99	93.4%

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COUNTY OF FLUVANNA  
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FOR 2015 12

ACCOUNTS FOR: 105 SOCIAL SERVICES	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
540 PUBLIC ASSISTANCE							
<a href="#">10554000 405701 GENRELF</a>	7,000	0	7,000	1,263.36	.00	5,736.64	18.0%
<a href="#">10554000 405702 AUXGRTS</a>	21,000	0	21,000	30,603.00	.00	-9,603.00	145.7%*
<a href="#">10554000 405705 AIDDEPCHDN</a>	2,000	0	2,000	.00	.00	2,000.00	.0%
<a href="#">10554000 405706 FOSTERCARE</a>	105,000	0	105,000	1,430.60	.00	103,569.40	1.4%
<a href="#">10554000 405707 EMRGASST</a>	500	0	500	.00	.00	500.00	.0%
<a href="#">10554000 405709 SPECNDSADP</a>	152,000	0	152,000	99,920.50	.00	52,079.50	65.7%
<a href="#">10554000 405712 SUBADOPIVE</a>	95,762	15,000	110,762	262,216.00	.00	-151,454.00	236.7%*
TOTAL PUBLIC ASSISTANCE	383,262	15,000	398,262	395,433.46	.00	2,828.54	99.3%

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ACCOUNTS FOR: 105 SOCIAL SERVICES	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
<hr/>							
550 PURCHASE OF SERVICES							
<a href="#">10555000 405711 SSPOS</a>	110,313	-15,000	95,313	40,817.97	.00	54,495.03	42.8%
TOTAL PURCHASE OF SERVICES	110,313	-15,000	95,313	40,817.97	.00	54,495.03	42.8%

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COUNTY OF FLUVANNA  
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ACCOUNTS FOR: 105 SOCIAL SERVICES	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
560 DAYCARE PROGRAM							
<a href="#">10556000 403100 PROFSVCS</a>	7,425	0	7,425	7,385.03	.00	39.97	99.5%
TOTAL DAYCARE PROGRAM	7,425	0	7,425	7,385.03	.00	39.97	99.5%

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ACCOUNTS FOR: 105 SOCIAL SERVICES	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
570 FOSTER HOME COORDINATOR							
<u>10557000 403300 CONTRSVC</u>	1,400	0	1,400	.00	.00	1,400.00	.0%
<u>10557000 405711 SSPOS</u>	6,400	0	6,400	.00	.00	6,400.00	.0%
TOTAL FOSTER HOME COORDINATOR	7,800	0	7,800	.00	.00	7,800.00	.0%

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ACCOUNTS FOR: 105 SOCIAL SERVICES	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
<hr/>							
580 FAMILY SUPPORT							
<a href="#">10558000 405711 SSPOS</a>	20,964	0	20,964	20,429.01	.00	534.99	97.4%
TOTAL FAMILY SUPPORT	20,964	0	20,964	20,429.01	.00	534.99	97.4%
TOTAL SOCIAL SERVICES	2,261,593	12,913	2,274,506	2,093,915.60	.00	180,590.52	92.1%
TOTAL EXPENSES	2,261,593	12,913	2,274,506	2,093,915.60	.00	180,590.52	

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ACCOUNTS FOR: 251 SCHOOL	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
<hr/>							
610 VASS							
<a href="#">25161000 496000 VASSEXP</a>	0	0	0	16,142.56	.00	-16,142.56	100.0%*
TOTAL VASS	0	0	0	16,142.56	.00	-16,142.56	100.0%

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ACCOUNTS FOR: 251 SCHOOL	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
620 INSTRUCTION							
<a href="#">25162000 496001 INSTRUCT</a>	26,799,309	111,747	26,911,056	26,945,337.75	.00	-34,281.75	100.1%*
TOTAL INSTRUCTION	26,799,309	111,747	26,911,056	26,945,337.75	.00	-34,281.75	100.1%

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ACCOUNTS FOR:  
251 SCHOOL

ORIGINAL  
APPROP

TRANFRS/  
ADJSTMTS

REVISED  
BUDGET

YTD EXPENDED

ENCUMBRANCES

AVAILABLE  
BUDGET

PCT  
USED

630 ADMIN/ATTENDANCE/HEALTH

[25163000](#) [496002](#) [AAH](#)

1,615,147

-89,197

1,525,950

1,527,404.58

.00

-1,454.58

100.1%\*

TOTAL ADMIN/ATTENDANCE/HEALTH

1,615,147

-89,197

1,525,950

1,527,404.58

.00

-1,454.58

100.1%

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ACCOUNTS FOR: 251 SCHOOL	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
640 PUPIL TRANSPORTATION SERV							
<a href="#">25164000 496003 TRANSPORT</a>	2,719,564	0	2,719,564	2,400,202.66	.00	319,361.34	88.3%
TOTAL PUPIL TRANSPORTATION SERV	2,719,564	0	2,719,564	2,400,202.66	.00	319,361.34	88.3%

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ACCOUNTS FOR:  
251 SCHOOL

ORIGINAL  
APPROP

TRANFRS/  
ADJSTMTS

REVISED  
BUDGET

YTD EXPENDED

ENCUMBRANCES

AVAILABLE  
BUDGET

PCT  
USED

650 OPERATION & MAINT SERV

[25165000 496004 OPER&MAIN](#)

3,681,626

20,646

3,702,272

3,343,158.64

.00

359,113.36

90.3%

TOTAL OPERATION & MAINT SERV

3,681,626

20,646

3,702,272

3,343,158.64

.00

359,113.36

90.3%

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COUNTY OF FLUVANNA  
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ACCOUNTS FOR: 251 SCHOOL	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
<hr/>							
670 TECHNOLOGY							
<a href="#">25167000 496008 TECH</a>	1,666,290	81,697	1,747,987	1,738,314.18	.00	9,672.82	99.4%
TOTAL TECHNOLOGY	1,666,290	81,697	1,747,987	1,738,314.18	.00	9,672.82	99.4%
TOTAL SCHOOL	36,481,936	124,893	36,606,829	35,970,560.37	.00	636,268.63	98.3%
TOTAL EXPENSES	36,481,936	124,893	36,606,829	35,970,560.37	.00	636,268.63	

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ACCOUNTS FOR: 252 CAFETERIA	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
<hr/>							
680 CAFETERIA							
<a href="#">25268000 406002 FOODSUPL</a>	1,428,251	0	1,428,251	1,298,654.64	.00	129,596.36	90.9%
TOTAL CAFETERIA	1,428,251	0	1,428,251	1,298,654.64	.00	129,596.36	90.9%
TOTAL CAFETERIA	1,428,251	0	1,428,251	1,298,654.64	.00	129,596.36	90.9%
TOTAL EXPENSES	1,428,251	0	1,428,251	1,298,654.64	.00	129,596.36	

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COUNTY OF FLUVANNA  
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ACCOUNTS FOR: 401 DEBT SERVICE	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
910 DEBT SERVICE - COUNTY							
<a href="#">40109910 495000 ADMINFEES</a>	15,000	0	15,000	6,150.00	.00	8,850.00	41.0%
<a href="#">40109910 495021 CRTHSEPL</a>	83,900	0	83,900	83,900.00	.00	.00	100.0%
<a href="#">40109910 495022 CRTHSEINT</a>	78,136	0	78,136	39,967.79	.00	38,168.21	51.2%
<a href="#">40109910 495024 LIB06BDPL</a>	188,400	0	188,400	.00	.00	188,400.00	.0%
<a href="#">40109910 495025 LB06BDINT</a>	74,836	0	74,836	37,481.00	.00	37,355.00	50.1%
<a href="#">40109910 495026 07PLMTKPL</a>	50,217	0	50,217	50,260.58	.00	-43.58	100.1%*
<a href="#">40109910 495027 08KSTKPL</a>	45,105	0	45,105	44,953.25	.00	151.75	99.7%
<a href="#">40109910 495030 07PLTKINT</a>	4,234	0	4,234	4,189.65	.00	44.35	99.0%
<a href="#">40109910 495031 08KSTKINT</a>	9,719	0	9,719	9,871.36	.00	-152.36	101.6%*
<a href="#">40109910 495040 12FTFUPRIN</a>	49,731	0	49,731	49,730.63	.00	.37	100.0%
<a href="#">40109910 495041 12FTFUINT</a>	11,527	0	11,527	11,526.56	.00	.44	100.0%
<a href="#">40109910 495042 13SHERPRIN</a>	85,572	0	85,572	85,571.60	.00	.40	100.0%
<a href="#">40109910 495043 13SHERINT</a>	1,754	0	1,754	1,754.20	.00	-.20	100.0%*
<a href="#">40109910 495051 14FTPALMIN</a>	0	0	0	10,054.69	.00	-10,054.69	100.0%*
<a href="#">40109910 495053 14CRTHSINT</a>	0	0	0	33,735.94	.00	-33,735.94	100.0%*
<a href="#">40109910 495055 14LIBRYINT</a>	0	0	0	29,649.38	.00	-29,649.38	100.0%*
<a href="#">40109910 495999 DEBTPLACEH</a>	300,000	0	300,000	.00	.00	300,000.00	.0%
TOTAL DEBT SERVICE - COUNTY	998,131	0	998,131	498,796.63	.00	499,334.37	50.0%

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ACCOUNTS FOR: 401 DEBT SERVICE	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
920 DEBT SERVICE - SCHOOLS							
<a href="#">40109920 495001 MID96PRIN</a>	47,399	0	47,399	47,399.00	.00	.00	100.0%
<a href="#">40109920 495003 VPSA95PRIN</a>	121,224	0	121,224	121,224.00	.00	.00	100.0%
<a href="#">40109920 495004 VPSA99PRIN</a>	50,000	0	50,000	50,000.00	.00	.00	100.0%
<a href="#">40109920 495005 LITL1999</a>	309,851	0	309,851	309,851.13	.00	-.13	100.0%*
<a href="#">40109920 495006 GO05APRIN</a>	309,250	0	309,250	309,250.00	.00	.00	100.0%
<a href="#">40109920 495012 VPSA96INT</a>	6,351	0	6,351	6,351.44	.00	-.44	100.0%*
<a href="#">40109920 495013 VPSA95AINT</a>	9,401	0	9,401	9,400.93	.00	.07	100.0%
<a href="#">40109920 495014 VPSA99INT</a>	14,056	0	14,056	14,056.25	.00	-.25	100.0%*
<a href="#">40109920 495015 LITL1999INT</a>	74,364	0	74,364	74,364.27	.00	-.27	100.0%*
<a href="#">40109920 495016 GOBND05INT</a>	195,125	0	195,125	195,125.28	.00	-.28	100.0%*
<a href="#">40109920 495020 VPSA08INT</a>	356,263	0	356,263	356,259.21	.00	3.79	100.0%
<a href="#">40109920 495036 QSCB2009</a>	243,900	0	243,900	243,900.00	.00	.00	100.0%
<a href="#">40109920 495037 HS08PRIN</a>	1,545,000	0	1,545,000	1,545,000.00	.00	.00	100.0%
<a href="#">40109920 495044 VPSA12BPR</a>	625,000	0	625,000	625,000.00	.00	.00	100.0%
<a href="#">40109920 495045 VPSA12BINT</a>	2,367,069	0	2,367,069	2,367,068.75	.00	.25	100.0%
<a href="#">40109920 495046 VPSA12APR</a>	205,000	0	205,000	205,000.00	.00	.00	100.0%
<a href="#">40109920 495047 VPSA12AINT</a>	146,711	0	146,711	146,711.25	.00	-.25	100.0%*
TOTAL DEBT SERVICE - SCHOOLS	6,625,964	0	6,625,964	6,625,961.51	.00	2.49	100.0%
TOTAL DEBT SERVICE	7,624,095	0	7,624,095	7,124,758.14	.00	499,336.86	93.5%
TOTAL EXPENSES	7,624,095	0	7,624,095	7,124,758.14	.00	499,336.86	

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ACCOUNTS FOR: 502 SEWER	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
000 NON DEPT							
50200000 401100 SAL & WAGE	42,346	0	42,346	41,098.38	.00	1,247.62	97.1%
50200000 401310 OT PAY	2,000	0	2,000	2,230.39	.00	-230.39	111.5%*
50200000 402100 FICA	3,393	0	3,393	3,023.49	.00	369.51	89.1%
50200000 402210 VRS	5,442	0	5,442	4,231.55	.00	1,210.45	77.8%
50200000 402300 MEDINS	6,048	0	6,048	8,279.80	.00	-2,231.80	136.9%*
50200000 402400 GRPLIFE	504	0	504	467.47	.00	36.53	92.8%
50200000 402700 WORKCOMP	1,350	0	1,350	1,289.31	.00	60.69	95.5%
50200000 403100 PROFSVCS	4,000	0	4,000	2,253.02	.00	1,746.98	56.3%
50200000 403170 PERMITFEE	4,000	0	4,000	2,640.00	.00	1,360.00	66.0%
50200000 403300 CONTRSVC	1,700	0	1,700	12,621.00	.00	-10,921.00	742.4%*
50200000 403310 REP/MAINT	8,000	0	8,000	4,391.63	.00	3,608.37	54.9%
50200000 403600 ADVERT	400	0	400	.00	.00	400.00	.0%
50200000 403700 LAUNDRY	600	0	600	641.86	.00	-41.86	107.0%*
50200000 405110 ELECSVCS	10,000	0	10,000	10,072.71	.00	-72.71	100.7%*
50200000 405210 POSTAL	400	0	400	.00	.00	400.00	.0%
50200000 405230 TELECOMM	1,200	0	1,200	1,037.95	.00	162.05	86.5%
50200000 405540 CONVEDUC	500	0	500	.00	.00	500.00	.0%
50200000 405810 DUES	300	0	300	.00	.00	300.00	.0%
50200000 406001 OFFSUPL	500	0	500	230.04	.00	269.96	46.0%
50200000 406003 AGRICSUPL	1,000	0	1,000	1,056.72	.00	-56.72	105.7%*
50200000 406004 GENLSUPL	2,900	0	2,900	3,015.75	.00	-115.75	104.0%*
50200000 406006 CHEMSUPL	6,000	0	6,000	6,394.85	.00	-394.85	106.6%*
50200000 406008 VEHFUEL	1,200	0	1,200	.00	.00	1,200.00	.0%
50200000 408110 DEPREXP	50,000	0	50,000	6,740.00	.00	43,260.00	13.5%
50200000 409111 REDEMPR	60,000	0	60,000	.00	.00	60,000.00	.0%
TOTAL NON DEPT	213,783	0	213,783	111,715.92	.00	102,067.08	52.3%
TOTAL SEWER	213,783	0	213,783	111,715.92	.00	102,067.08	52.3%
TOTAL EXPENSES	213,783	0	213,783	111,715.92	.00	102,067.08	

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ACCOUNTS FOR: 505	FORK UNION SANITARY DISTRICT	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
000 NON DEPT								
<a href="#">50500000</a>	<a href="#">401100</a>	<a href="#">SAL &amp; WAGE</a>						
		112,306	4,216	116,522	120,804.49	.00	-4,282.49	103.7%*
<a href="#">50500000</a>	<a href="#">401310</a>	<a href="#">OT PAY</a>						
		5,000	0	5,000	8,038.91	.00	-3,038.91	160.8%*
<a href="#">50500000</a>	<a href="#">402100</a>	<a href="#">FICA</a>						
		8,974	323	9,297	9,247.87	.00	49.13	99.5%
<a href="#">50500000</a>	<a href="#">402210</a>	<a href="#">VRS</a>						
		14,431	446	14,877	12,434.79	.00	2,442.21	83.6%
<a href="#">50500000</a>	<a href="#">402300</a>	<a href="#">MEDINS</a>						
		22,675	0	22,675	22,367.39	.00	307.61	98.6%
<a href="#">50500000</a>	<a href="#">402400</a>	<a href="#">GRPLIFE</a>						
		1,336	50	1,386	1,372.98	.00	13.02	99.1%
<a href="#">50500000</a>	<a href="#">402700</a>	<a href="#">WORKCOMP</a>						
		3,656	0	3,656	3,676.85	.00	-20.85	100.6%*
<a href="#">50500000</a>	<a href="#">403100</a>	<a href="#">PROFSVCS</a>						
		8,500	0	8,500	6,189.76	.00	2,310.24	72.8%
<a href="#">50500000</a>	<a href="#">403170</a>	<a href="#">PERMITFEE</a>						
		7,500	0	7,500	6,426.10	.00	1,073.90	85.7%
<a href="#">50500000</a>	<a href="#">403310</a>	<a href="#">REP/MAINT</a>						
		12,200	0	12,200	23,281.44	.00	-11,081.44	190.8%*
<a href="#">50500000</a>	<a href="#">403600</a>	<a href="#">ADVERT</a>						
		400	0	400	.00	.00	400.00	.0%
<a href="#">50500000</a>	<a href="#">403700</a>	<a href="#">LAUNDRY</a>						
		2,000	0	2,000	2,300.27	.00	-300.27	115.0%*
<a href="#">50500000</a>	<a href="#">405110</a>	<a href="#">ELECSVCS</a>						
		41,000	0	41,000	35,741.67	.00	5,258.33	87.2%
<a href="#">50500000</a>	<a href="#">405210</a>	<a href="#">POSTAL</a>						
		2,000	0	2,000	2,959.38	.00	-959.38	148.0%*
<a href="#">50500000</a>	<a href="#">405230</a>	<a href="#">TELECOMM</a>						
		4,200	0	4,200	5,528.43	.00	-1,328.43	131.6%*
<a href="#">50500000</a>	<a href="#">405304</a>	<a href="#">PROPINS</a>						
		200	0	200	200.00	.00	.00	100.0%
<a href="#">50500000</a>	<a href="#">405305</a>	<a href="#">VEHICLEINS</a>						
		2,900	0	2,900	3,411.45	.00	-511.45	117.6%*
<a href="#">50500000</a>	<a href="#">405410</a>	<a href="#">LEASERENT</a>						
		1,800	0	1,800	1,800.00	.00	.00	100.0%
<a href="#">50500000</a>	<a href="#">405540</a>	<a href="#">CONVEDUC</a>						
		1,500	0	1,500	672.00	.00	828.00	44.8%
<a href="#">50500000</a>	<a href="#">405711</a>	<a href="#">SSPOS</a>						
		4,000	0	4,000	5,886.00	.00	-1,886.00	147.2%*
<a href="#">50500000</a>	<a href="#">405810</a>	<a href="#">DUES</a>						
		700	0	700	.00	.00	700.00	.0%
<a href="#">50500000</a>	<a href="#">405998</a>	<a href="#">BADDEBT</a>						
		0	0	0	-7.76	.00	7.76	100.0%
<a href="#">50500000</a>	<a href="#">406001</a>	<a href="#">OFFSUPL</a>						
		1,000	0	1,000	482.36	.00	517.64	48.2%
<a href="#">50500000</a>	<a href="#">406003</a>	<a href="#">AGRICSUPL</a>						
		16,000	0	16,000	13,269.09	.00	2,730.91	82.9%
<a href="#">50500000</a>	<a href="#">406004</a>	<a href="#">GENLSUPL</a>						
		7,000	0	7,000	4,147.47	.00	2,852.53	59.2%
<a href="#">50500000</a>	<a href="#">406008</a>	<a href="#">VEHFUEL</a>						
		7,500	0	7,500	11,992.02	.00	-4,492.02	159.9%*
<a href="#">50500000</a>	<a href="#">406009</a>	<a href="#">VEHSUPL</a>						
		1,200	0	1,200	1,089.65	.00	110.35	90.8%
<a href="#">50500000</a>	<a href="#">409111</a>	<a href="#">REDEMPR</a>						
		65,411	0	65,411	.00	.00	65,411.00	.0%
<a href="#">50500000</a>	<a href="#">409115</a>	<a href="#">REDEMINT</a>						
		34,109	0	34,109	24,704.97	.00	9,404.03	72.4%
TOTAL NON DEPT		389,498	5,035	394,533	328,017.58	.00	66,515.42	83.1%
TOTAL FORK UNION SANITARY DISTRICT		389,498	5,035	394,533	328,017.58	.00	66,515.42	83.1%
TOTAL EXPENSES		389,498	5,035	394,533	328,017.58	.00	66,515.42	

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COUNTY OF FLUVANNA  
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	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
GRAND TOTAL	91,121,838	796,443	91,918,281	84,222,595.68	.00	7,695,685.72	91.6%

\*\* END OF REPORT - Generated by Mary Anna Twisdale \*\*



# **FY15 4th Quarter Budget Report**

**The majority of departments ended the 4<sup>th</sup> quarter  
between 90% - 100% of budget.**



**FLUVANNA COUNTY BOARD OF SUPERVISORS AGENDA ITEM**

**Meeting Date:** November 4, 2015

<b>AGENDA TITLE:</b>	FY16 1 <sup>st</sup> Quarter Budget Report				
<b>MOTION(s):</b>					
<b>AGENDA CATEGORY:</b>	Public Hearing	Action Matter	Presentation	Consent Agenda	Other
			<b>X</b>		
<b>STAFF CONTACT(S):</b>	Mary Anna Twisdale, Management Analyst				
<b>PRESENTER(S):</b>	Mary Anna Twisdale, Management Analyst				
<b>RECOMMENDATION:</b>					
<b>TIMING:</b>	Routine				
<b>DISCUSSION:</b>	FY16 1 <sup>st</sup> Quarter Budget Update				
<b>FISCAL IMPACT:</b>	N/A				
<b>POLICY IMPACT:</b>	N/A				
<b>LEGISLATIVE HISTORY:</b>	None				
<b>ENCLOSURES:</b>					
<b>REVIEWS COMPLETED:</b>	Legal	Finance	Purchasing	HR	Other
		<b>X</b>			



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COUNTY OF FLUVANNA  
YEAR-TO-DATE BUDGET REPORT **Through 9/30/15**

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FOR 2016 03

ACCOUNTS FOR: 100	GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
110 BOARD OF SUPERVISORS								
<a href="#">10011000</a>	<a href="#">401114</a>	<a href="#">BOARDCOMP</a>						
		46,400	0	46,400	9,415.38	.00	36,984.62	20.3%
<a href="#">10011000</a>	<a href="#">402100</a>	<a href="#">FICA</a>						
		2,883	0	2,883	546.21	.00	2,336.79	18.9%
<a href="#">10011000</a>	<a href="#">402300</a>	<a href="#">MEDINS</a>						
		30,199	0	30,199	6,329.87	.00	23,869.13	21.0%
<a href="#">10011000</a>	<a href="#">402700</a>	<a href="#">WORKCOMP</a>						
		0	0	0	41.11	.00	-41.11	100.0%
<a href="#">10011000</a>	<a href="#">403100</a>	<a href="#">PROFSVCS</a>						
		57,000	0	57,000	3,500.00	.00	53,500.00	6.1%
<a href="#">10011000</a>	<a href="#">403100</a>	<a href="#">12DAY PROFSVCS</a>						
		0	0	0	12,500.00	.00	-12,500.00	100.0%
<a href="#">10011000</a>	<a href="#">403500</a>	<a href="#">PRINTING</a>						
		200	0	200	.00	.00	200.00	.0%
<a href="#">10011000</a>	<a href="#">403600</a>	<a href="#">ADVERT</a>						
		2,000	0	2,000	636.70	.00	1,363.30	31.8%
<a href="#">10011000</a>	<a href="#">405210</a>	<a href="#">POSTAL</a>						
		400	0	400	175.20	.00	224.80	43.8%
<a href="#">10011000</a>	<a href="#">405230</a>	<a href="#">TELECOMM</a>						
		4,100	0	4,100	808.65	.00	3,291.35	19.7%
<a href="#">10011000</a>	<a href="#">405307</a>	<a href="#">PUBOFFINS</a>						
		7,250	0	7,250	8,916.00	.00	-1,666.00	123.0%
<a href="#">10011000</a>	<a href="#">405510</a>	<a href="#">MILEAGE</a>						
		1,000	0	1,000	92.00	.00	908.00	9.2%
<a href="#">10011000</a>	<a href="#">405530</a>	<a href="#">SUB&amp;LODG</a>						
		4,500	0	4,500	23.68	.00	4,476.32	.5%
<a href="#">10011000</a>	<a href="#">405540</a>	<a href="#">CONVEDUC</a>						
		1,650	0	1,650	410.00	.00	1,240.00	24.8%
<a href="#">10011000</a>	<a href="#">405810</a>	<a href="#">DUES</a>						
		8,000	0	8,000	6,454.00	.00	1,546.00	80.7%
<a href="#">10011000</a>	<a href="#">406001</a>	<a href="#">OFFSUPL</a>						
		800	0	800	183.70	.00	616.30	23.0%
<a href="#">10011000</a>	<a href="#">406012</a>	<a href="#">BOOKS</a>						
		750	0	750	233.94	.00	516.06	31.2%
<a href="#">10011000</a>	<a href="#">406014</a>	<a href="#">OTHEROPER</a>						
		1,950	0	1,950	325.54	.00	1,624.46	16.7%
TOTAL BOARD OF SUPERVISORS		169,082	0	169,082	50,591.98	.00	118,490.02	29.9%

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COUNTY OF FLUVANNA  
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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
120 COUNTY ADMINISTRATOR							
<a href="#">10012000 401100 SAL &amp; WAGE</a>	160,858	2,028	162,886	37,022.71	.00	125,863.29	22.7%
<a href="#">10012000 401300 PT SAL/WAG</a>	14,000	175	14,175	3,345.06	.00	10,829.94	23.6%
<a href="#">10012000 401310 OT PAY</a>	2,000	0	2,000	466.47	.00	1,533.53	23.3%
<a href="#">10012000 401335 TECH STPND</a>	1,200	0	1,200	276.90	.00	923.10	23.1%
<a href="#">10012000 401336 VEH STPND</a>	4,800	0	4,800	1,107.72	.00	3,692.28	23.1%
<a href="#">10012000 402100 FICA</a>	13,701	168	13,869	3,131.50	.00	10,737.50	22.6%
<a href="#">10012000 402210 VRS</a>	16,488	215	16,703	3,591.17	.00	13,111.83	21.5%
<a href="#">10012000 402250 DISABILITY</a>	0	0	0	50.82	.00	-50.82	100.0%
<a href="#">10012000 402300 MEDINS</a>	10,680	0	10,680	2,225.00	.00	8,455.00	20.8%
<a href="#">10012000 402400 GRPLIFE</a>	1,879	24	1,903	396.82	.00	1,506.18	20.9%
<a href="#">10012000 402700 WORKCOMP</a>	389	0	389	174.88	.00	214.12	45.0%
<a href="#">10012000 403600 ADVERT</a>	0	0	0	101.00	.00	-101.00	100.0%
<a href="#">10012000 405210 POSTAL</a>	506	0	506	42.36	.00	463.64	8.4%
<a href="#">10012000 405230 TELECOMM</a>	960	0	960	158.74	.00	801.26	16.5%
<a href="#">10012000 405410 LEASERENT</a>	3,855	0	3,855	1,373.42	1,618.06	863.52	77.6%
<a href="#">10012000 405510 MILEAGE</a>	400	0	400	142.25	.00	257.75	35.6%
<a href="#">10012000 405530 SUB&amp;LODG</a>	1,400	0	1,400	.00	.00	1,400.00	.0%
<a href="#">10012000 405540 CONVEDUC</a>	1,700	0	1,700	710.00	.00	990.00	41.8%
<a href="#">10012000 405810 DUES</a>	1,510	0	1,510	949.00	.00	561.00	62.8%
<a href="#">10012000 406001 OFFSUPL</a>	2,500	0	2,500	543.45	.00	1,956.55	21.7%
<a href="#">10012000 406008 VEHFUEL</a>	100	0	100	.00	.00	100.00	.0%
<a href="#">10012000 406012 BOOKS</a>	350	0	350	.00	.00	350.00	.0%
<a href="#">10012000 408102 FURN/FIX</a>	500	0	500	.00	.00	500.00	.0%
TOTAL COUNTY ADMINISTRATOR	239,776	2,610	242,386	55,809.27	1,618.06	184,958.67	23.7%

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COUNTY OF FLUVANNA  
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FOR 2016 03

ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
<hr/>							
125 COUNTY ATTORNEY							
<a href="#">10012500 403100 PROFSVCS</a>	156,000	0	156,000	36,948.88	.00	119,051.12	23.7%
TOTAL COUNTY ATTORNEY	156,000	0	156,000	36,948.88	.00	119,051.12	23.7%

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COUNTY OF FLUVANNA  
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FOR 2016 03

ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
130 COMMISSIONER OF THE REVENUE							
<a href="#">10013000 401100 SAL &amp; WAGE</a>	233,070	3,094	236,164	56,258.44	.00	179,905.56	23.8%
<a href="#">10013000 401300 PT SAL/WAG</a>	2,000	0	2,000	.00	.00	2,000.00	.0%
<a href="#">10013000 401330 CB STIPEND</a>	6,197	0	6,197	.00	.00	6,197.00	.0%
<a href="#">10013000 402100 FICA</a>	18,571	237	18,808	4,216.10	.00	14,591.90	22.4%
<a href="#">10013000 402210 VRS</a>	24,897	327	25,224	5,378.59	.00	19,845.41	21.3%
<a href="#">10013000 402250 DISABILITY</a>	0	0	0	37.72	.00	-37.72	100.0%
<a href="#">10013000 402300 MEDINS</a>	27,240	0	27,240	4,675.00	.00	22,565.00	17.2%
<a href="#">10013000 402400 GRPLIFE</a>	2,816	37	2,853	604.92	.00	2,248.08	21.2%
<a href="#">10013000 402700 WORKCOMP</a>	240	0	240	239.31	.00	.69	99.7%
<a href="#">10013000 403100 PROFSVCS</a>	18,075	0	18,075	4,630.00	.00	13,445.00	25.6%
<a href="#">10013000 403310 REP/MAINT</a>	200	0	200	12.00	.00	188.00	6.0%
<a href="#">10013000 403500 PRINTING</a>	2,155	0	2,155	.00	.00	2,155.00	.0%
<a href="#">10013000 403600 ADVERT</a>	200	0	200	.00	.00	200.00	.0%
<a href="#">10013000 405210 POSTAL</a>	1,544	0	1,544	.00	.00	1,544.00	.0%
<a href="#">10013000 405230 TELECOMM</a>	720	0	720	273.79	.00	446.21	38.0%
<a href="#">10013000 405410 LEASERENT</a>	5,540	0	5,540	.00	.00	5,540.00	.0%
<a href="#">10013000 405510 MILEAGE</a>	150	0	150	362.25	.00	-212.25	241.5%
<a href="#">10013000 405530 SUB&amp;LODG</a>	1,000	0	1,000	312.62	.00	687.38	31.3%
<a href="#">10013000 405540 CONVEDUC</a>	1,800	0	1,800	600.00	.00	1,200.00	33.3%
<a href="#">10013000 405810 DUES</a>	505	0	505	.00	.00	505.00	.0%
<a href="#">10013000 406001 OFFSUPL</a>	2,200	0	2,200	510.99	.00	1,689.01	23.2%
<a href="#">10013000 406008 VEHFUEL</a>	600	0	600	117.21	.00	482.79	19.5%
<a href="#">10013000 406021 ADPSUPL</a>	800	0	800	.00	.00	800.00	.0%
<a href="#">10013000 408102 FURN/FIX</a>	400	0	400	.00	.00	400.00	.0%
TOTAL COMMISSIONER OF THE REVENUE	350,920	3,695	354,615	78,228.94	.00	276,386.06	22.1%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
135 REASSESSMENT							
<a href="#">10013500 403100 PROFSVCS</a>	100,000	0	100,000	.00	.00	100,000.00	.0%
TOTAL REASSESSMENT	100,000	0	100,000	.00	.00	100,000.00	.0%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
140 TREASURER							
<a href="#">10014000 401100 SAL &amp; WAGE</a>	280,229	3,557	283,786	64,183.69	.00	219,602.31	22.6%
<a href="#">10014000 402100 FICA</a>	21,437	272	21,709	4,710.66	.00	16,998.34	21.7%
<a href="#">10014000 402210 VRS</a>	29,506	376	29,882	6,136.53	.00	23,745.47	20.5%
<a href="#">10014000 402300 MEDINS</a>	37,620	0	37,620	8,325.00	.00	29,295.00	22.1%
<a href="#">10014000 402400 GRPLIFE</a>	3,335	42	3,377	690.22	.00	2,686.78	20.4%
<a href="#">10014000 402700 WORKCOMP</a>	290	0	290	277.36	.00	12.64	95.6%
<a href="#">10014000 403100 PROFSVCS</a>	15,500	0	15,500	1,625.00	.00	13,875.00	10.5%
<a href="#">10014000 403500 PRINTING</a>	11,600	0	11,600	.00	.00	11,600.00	.0%
<a href="#">10014000 403600 ADVERT</a>	800	0	800	.00	.00	800.00	.0%
<a href="#">10014000 404102 DMV DMVONLN</a>	16,000	0	16,000	380.00	.00	15,620.00	2.4%
<a href="#">10014000 405210 POSTAL</a>	35,200	0	35,200	9,224.27	.00	25,975.73	26.2%
<a href="#">10014000 405230 TELECOMM</a>	2,000	0	2,000	267.26	.00	1,732.74	13.4%
<a href="#">10014000 405410 LEASERENT</a>	7,350	0	7,350	1,496.41	.00	5,853.59	20.4%
<a href="#">10014000 405540 CONVEDUC</a>	1,000	0	1,000	.00	.00	1,000.00	.0%
<a href="#">10014000 405810 DUES</a>	830	0	830	.00	.00	830.00	.0%
<a href="#">10014000 406001 OFFSUPL</a>	3,550	0	3,550	381.52	.00	3,168.48	10.7%
<a href="#">10014000 408102 FURN/FIX</a>	500	0	500	.00	.00	500.00	.0%
<a href="#">10014000 408107 EDPEQUIP</a>	1,600	0	1,600	.00	.00	1,600.00	.0%
TOTAL TREASURER	468,347	4,247	472,594	97,697.92	.00	374,896.08	20.7%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
150 INFORMATION TECHNOLOGY							
<a href="#">10015000 401100 SAL &amp; WAGE</a>	108,272	1,374	109,646	19,560.39	.00	90,085.61	17.8%
<a href="#">10015000 401310 OT PAY</a>	1,000	0	1,000	.00	.00	1,000.00	.0%
<a href="#">10015000 402100 FICA</a>	8,283	105	8,388	1,497.72	.00	6,890.28	17.9%
<a href="#">10015000 402210 VRS</a>	11,395	145	11,540	1,690.40	.00	9,849.60	14.6%
<a href="#">10015000 402300 MEDINS</a>	10,680	0	10,680	.00	.00	10,680.00	.0%
<a href="#">10015000 402400 GRPLIFE</a>	1,288	16	1,304	186.77	.00	1,117.23	14.3%
<a href="#">10015000 402700 WORKCOMP</a>	71	0	71	106.16	.00	-35.16	149.5%
<a href="#">10015000 403100 PROFSVCS</a>	4,000	0	4,000	684.96	.00	3,315.04	17.1%
<a href="#">10015000 403131 ADPSERV</a>	158,210	0	158,210	74,194.77	.00	84,015.23	46.9%
<a href="#">10015000 405210 POSTAL</a>	100	0	100	.00	.00	100.00	.0%
<a href="#">10015000 405230 TELECOMM</a>	29,450	0	29,450	11,407.10	.00	18,042.90	38.7%
<a href="#">10015000 405410 LEASERENT</a>	0	0	0	125.00	.00	-125.00	100.0%
<a href="#">10015000 405510 MILEAGE</a>	200	0	200	.00	.00	200.00	.0%
<a href="#">10015000 405540 CONVEDUC</a>	2,000	0	2,000	.00	.00	2,000.00	.0%
<a href="#">10015000 405810 DUES</a>	500	0	500	.00	.00	500.00	.0%
<a href="#">10015000 406001 OFFSUPL</a>	200	0	200	44.24	.00	155.76	22.1%
<a href="#">10015000 406012 BOOKS</a>	1,000	0	1,000	124.96	.00	875.04	12.5%
<a href="#">10015000 406021 ADESUPL</a>	9,000	0	9,000	134.29	.00	8,865.71	1.5%
<a href="#">10015000 408102 FURN/FIX</a>	3,000	0	3,000	.00	.00	3,000.00	.0%
<a href="#">10015000 408107 EDPEQUIP</a>	59,080	0	59,080	.00	.00	59,080.00	.0%
TOTAL INFORMATION TECHNOLOGY	407,729	1,640	409,369	109,756.76	.00	299,612.24	26.8%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
160 FINANCE							
<u>10016000 401100 SAL &amp; WAGE</u>	249,975	3,070	253,045	46,280.94	.00	206,764.06	18.3%
<u>10016000 401300 PT SAL/WAG</u>	0	0	0	1,306.25	.00	-1,306.25	100.0%
<u>10016000 401310 OT PAY</u>	300	0	300	.00	.00	300.00	.0%
<u>10016000 402100 FICA</u>	18,916	235	19,151	3,493.48	.00	15,657.52	18.2%
<u>10016000 402210 VRS</u>	26,083	325	26,408	4,354.18	.00	22,053.82	16.5%
<u>10016000 402250 DISABILITY</u>	0	0	0	48.23	.00	-48.23	100.0%
<u>10016000 402300 MEDINS</u>	34,080	0	34,080	5,385.00	.00	28,695.00	15.8%
<u>10016000 402400 GRPLIFE</u>	2,939	37	2,976	481.12	.00	2,494.88	16.2%
<u>10016000 402700 WORKCOMP</u>	221	0	221	246.68	.00	-25.68	111.6%
<u>10016000 403100 PROFSVCS</u>	2,000	0	2,000	.00	.00	2,000.00	.0%
<u>10016000 403300 CONTRSVC</u>	650	0	650	.00	.00	650.00	.0%
<u>10016000 403305 SURP COST</u>	300	0	300	.00	.00	300.00	.0%
<u>10016000 403500 PRINTING</u>	200	0	200	.00	.00	200.00	.0%
<u>10016000 403600 ADVERT</u>	200	0	200	.00	.00	200.00	.0%
<u>10016000 405210 POSTAL</u>	2,000	0	2,000	470.78	.00	1,529.22	23.5%
<u>10016000 405230 TELECOMM</u>	600	0	600	108.79	.00	491.21	18.1%
<u>10016000 405410 LEASERENT</u>	2,100	0	2,100	523.11	.00	1,576.89	24.9%
<u>10016000 405510 MILEAGE</u>	200	0	200	.00	.00	200.00	.0%
<u>10016000 405530 SUB&amp;LODG</u>	1,200	0	1,200	.00	.00	1,200.00	.0%
<u>10016000 405540 CONVEDUC</u>	2,000	0	2,000	.00	.00	2,000.00	.0%
<u>10016000 405810 DUES</u>	1,400	0	1,400	269.95	.00	1,130.05	19.3%
<u>10016000 406001 OFFSUPL</u>	3,500	0	3,500	428.04	.00	3,071.96	12.2%
<u>10016000 406012 BOOKS</u>	150	0	150	.00	.00	150.00	.0%
<u>10016000 408102 FURN/FIX</u>	250	4,500	4,750	3,656.81	.00	1,093.19	77.0%
TOTAL FINANCE	349,264	8,167	357,431	67,053.36	.00	290,377.64	18.8%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
170 REGISTRAR/ELECTORAL BOARD							
<a href="#">10017000 401100 SAL &amp; WAGE</a>	53,995	685	54,680	14,046.20	.00	40,633.80	25.7%
<a href="#">10017000 401114 BOARDCOMP</a>	9,801	0	9,801	1,915.19	.00	7,885.81	19.5%
<a href="#">10017000 401300 PT SAL/WAG</a>	38,884	329	39,213	8,586.70	.00	30,626.30	21.9%
<a href="#">10017000 401310 OT PAY</a>	3,230	0	3,230	45.66	.00	3,184.34	1.4%
<a href="#">10017000 402100 FICA</a>	7,088	77	7,165	1,864.10	.00	5,300.90	26.0%
<a href="#">10017000 402210 VRS</a>	8,714	73	8,787	1,665.31	.00	7,121.69	19.0%
<a href="#">10017000 402250 DISABILITY</a>	0	0	0	26.11	.00	-26.11	100.0%
<a href="#">10017000 402300 MEDINS</a>	14,100	0	14,100	2,450.00	.00	11,650.00	17.4%
<a href="#">10017000 402400 GRPLIFE</a>	925	8	933	187.30	.00	745.70	20.1%
<a href="#">10017000 402700 WORKCOMP</a>	116	0	116	78.54	.00	37.46	67.7%
<a href="#">10017000 403300 CONTRSVC</a>	59,869	0	59,869	.00	.00	59,869.00	.0%
<a href="#">10017000 403600 ADVERT</a>	500	0	500	.00	.00	500.00	.0%
<a href="#">10017000 405210 POSTAL</a>	3,000	0	3,000	3.50	.00	2,996.50	.1%
<a href="#">10017000 405230 TELECOMM</a>	1,930	0	1,930	275.10	.00	1,654.90	14.3%
<a href="#">10017000 405410 LEASERENT</a>	2,400	0	2,400	310.00	.00	2,090.00	12.9%
<a href="#">10017000 405510 MILEAGE</a>	2,500	0	2,500	197.97	.00	2,302.03	7.9%
<a href="#">10017000 405530 SUB&amp;LODG</a>	2,400	0	2,400	.00	.00	2,400.00	.0%
<a href="#">10017000 405540 CONVEDUC</a>	2,600	0	2,600	1,171.61	.00	1,428.39	45.1%
<a href="#">10017000 405810 DUES</a>	455	0	455	.00	.00	455.00	.0%
<a href="#">10017000 406001 OFFSUPL</a>	3,500	0	3,500	-1.61	.00	3,501.61	.0%
<a href="#">10017000 408101 MACHEQUIP</a>	0	18,500	18,500	.00	.00	18,500.00	.0%
TOTAL REGISTRAR/ELECTORAL BOARD	216,007	19,672	235,679	32,821.68	.00	202,857.32	13.9%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
180 HUMAN RESOURCES							
<a href="#">10018000 401100 SAL &amp; WAGE</a>	55,679	707	56,386	12,913.24	.00	43,472.76	22.9%
<a href="#">10018000 402100 FICA</a>	4,259	54	4,313	952.39	.00	3,360.61	22.1%
<a href="#">10018000 402210 VRS</a>	5,854	75	5,929	1,256.78	.00	4,672.22	21.2%
<a href="#">10018000 402300 MEDINS</a>	5,880	0	5,880	1,225.00	.00	4,655.00	20.8%
<a href="#">10018000 402400 GRPLIFE</a>	662	8	670	138.87	.00	531.13	20.7%
<a href="#">10018000 402700 WORKCOMP</a>	65	0	65	54.61	.00	10.39	84.0%
<a href="#">10018000 403100 PROFSVCS</a>	5,000	0	5,000	.00	.00	5,000.00	.0%
<a href="#">10018000 405350 RECRUIT</a>	1,300	0	1,300	525.90	.00	774.10	40.5%
<a href="#">10018000 405360 EMP RECOGN</a>	10,950	0	10,950	1,188.55	.00	9,761.45	10.9%
<a href="#">10018000 405410 LEASERENT</a>	538	0	538	139.02	.00	398.98	25.8%
<a href="#">10018000 405510 MILEAGE</a>	100	0	100	.00	.00	100.00	.0%
<a href="#">10018000 405530 SUB&amp;LODG</a>	500	0	500	.00	.00	500.00	.0%
<a href="#">10018000 405540 CONVEDUC</a>	1,500	0	1,500	.00	.00	1,500.00	.0%
<a href="#">10018000 405810 DUES</a>	530	0	530	270.00	.00	260.00	50.9%
<a href="#">10018000 406001 OFFSUPL</a>	500	0	500	49.90	.00	450.10	10.0%
<a href="#">10018000 406012 BOOKS</a>	130	0	130	129.47	.00	.53	99.6%
<a href="#">10018000 408102 FURN/FIX</a>	0	0	0	515.88	.00	-515.88	100.0%
TOTAL HUMAN RESOURCES	93,447	844	94,291	19,359.61	.00	74,931.39	20.5%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
210 GENERAL DISTRICT COURT							
<a href="#">10021000 403320 MAINTCONT</a>	3,015	0	3,015	578.47	.00	2,436.53	19.2%
<a href="#">10021000 405230 TELECOMM</a>	4,000	0	4,000	741.98	.00	3,258.02	18.5%
<a href="#">10021000 405410 LEASERENT</a>	112	0	112	.00	.00	112.00	.0%
<a href="#">10021000 405510 MILEAGE</a>	150	0	150	.00	.00	150.00	.0%
<a href="#">10021000 405540 CONVEDUC</a>	500	0	500	.00	.00	500.00	.0%
<a href="#">10021000 405810 DUES</a>	60	0	60	.00	.00	60.00	.0%
<a href="#">10021000 406001 OFFSUPL</a>	300	0	300	.00	.00	300.00	.0%
TOTAL GENERAL DISTRICT COURT	8,137	0	8,137	1,320.45	.00	6,816.55	16.2%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
220 COURT SERVICE UNIT							
<a href="#">10022000 405210 POSTAL</a>	160	0	160	.00	.00	160.00	.0%
<a href="#">10022000 405230 TELECOMM</a>	900	0	900	110.81	.00	789.19	12.3%
<a href="#">10022000 405410 LEASERENT</a>	250	0	250	32.25	.00	217.75	12.9%
<a href="#">10022000 405510 MILEAGE</a>	550	0	550	.00	.00	550.00	.0%
<a href="#">10022000 405540 CONVEDUC</a>	300	0	300	.00	.00	300.00	.0%
<a href="#">10022000 406001 OFFSUPL</a>	700	0	700	.00	.00	700.00	.0%
TOTAL COURT SERVICE UNIT	2,860	0	2,860	143.06	.00	2,716.94	5.0%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
230 CLERK OF THE CIRCUIT COURT							
<u>10023000 401100 SAL &amp; WAGE</u>	379,575	4,719	384,294	87,243.49	.00	297,050.51	22.7%
<u>10023000 401310 OT PAY</u>	5,000	0	5,000	.00	.00	5,000.00	.0%
<u>10023000 402100 FICA</u>	28,636	361	28,997	6,175.77	.00	22,821.23	21.3%
<u>10023000 402210 VRS</u>	39,397	499	39,896	8,341.27	.00	31,554.73	20.9%
<u>10023000 402250 DISABILITY</u>	0	0	0	38.07	.00	-38.07	100.0%
<u>10023000 402300 MEDINS</u>	69,660	0	69,660	13,775.00	.00	55,885.00	19.8%
<u>10023000 402400 GRPLIFE</u>	4,455	56	4,511	938.15	.00	3,572.85	20.8%
<u>10023000 402700 WORKCOMP</u>	371	0	371	370.63	.00	.37	99.9%
<u>10023000 403100 PROFSVCS</u>	35,000	0	35,000	7,625.01	.00	27,374.99	21.8%
<u>10023000 403140 TTFND TECHTRUST</u>	7,220	0	7,220	.00	.00	7,220.00	.0%
<u>10023000 403150 RECPR RECRDPRSV</u>	14,000	0	14,000	.00	.00	14,000.00	.0%
<u>10023000 403300 CONTRSVC</u>	1,500	0	1,500	145.45	.00	1,354.55	9.7%
<u>10023000 403310 REP/MAINT</u>	500	0	500	.00	.00	500.00	.0%
<u>10023000 403320 MAINTCONT</u>	1,700	0	1,700	.00	.00	1,700.00	.0%
<u>10023000 403500 PRINTING</u>	4,100	0	4,100	169.50	.00	3,930.50	4.1%
<u>10023000 405210 POSTAL</u>	5,000	0	5,000	2,000.00	.00	3,000.00	40.0%
<u>10023000 405230 TELECOMM</u>	1,500	0	1,500	213.39	.00	1,286.61	14.2%
<u>10023000 405410 LEASERENT</u>	2,900	0	2,900	856.59	.00	2,043.41	29.5%
<u>10023000 405510 MILEAGE</u>	300	0	300	.00	.00	300.00	.0%
<u>10023000 405540 CONVEDUC</u>	750	0	750	.00	.00	750.00	.0%
<u>10023000 405810 DUES</u>	400	0	400	320.00	.00	80.00	80.0%
<u>10023000 406001 OFFSUPL</u>	6,020	0	6,020	904.94	.00	5,115.06	15.0%
<u>10023000 406012 BOOKS</u>	100	0	100	54.00	.00	46.00	54.0%
<u>10023000 408102 FURN/FIX</u>	400	0	400	.00	.00	400.00	.0%
<u>10023000 408107 EDPEQUIP</u>	2,500	0	2,500	.00	.00	2,500.00	.0%
TOTAL CLERK OF THE CIRCUIT COURT	610,984	5,635	616,619	129,171.26	.00	487,447.74	20.9%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
235 CIRCUIT COURT JUDGE							
<a href="#">10023500 401115 JURORWITNS</a>	5,400	0	5,400	2,010.00	.00	3,390.00	37.2%
<a href="#">10023500 401116 JURYCOMMIS</a>	90	0	90	.00	.00	90.00	.0%
<a href="#">10023500 401117 CIVILJUROR</a>	4,500	0	4,500	.00	.00	4,500.00	.0%
<a href="#">10023500 401118 GRNDJUROR</a>	630	0	630	.00	.00	630.00	.0%
<a href="#">10023500 401119 WITNESSFEE</a>	1,500	0	1,500	.00	.00	1,500.00	.0%
<a href="#">10023500 401120 CAATTYFEES</a>	500	0	500	.00	.00	500.00	.0%
<a href="#">10023500 403100 PROFSVCS</a>	27,076	0	27,076	.00	.00	27,076.00	.0%
<a href="#">10023500 403320 MAINTCONT</a>	100	0	100	.00	.00	100.00	.0%
<a href="#">10023500 405230 TELECOMM</a>	650	0	650	58.12	.00	591.88	8.9%
<a href="#">10023500 405810 DUES</a>	650	0	650	.00	.00	650.00	.0%
<a href="#">10023500 406001 OFFSUPL</a>	750	0	750	150.76	.00	599.24	20.1%
<a href="#">10023500 408102 FURN/FIX</a>	350	0	350	.00	.00	350.00	.0%
<a href="#">10023500 408107 EDPEQUIP</a>	2,500	0	2,500	.00	.00	2,500.00	.0%
TOTAL CIRCUIT COURT JUDGE	44,696	0	44,696	2,218.88	.00	42,477.12	5.0%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
240 COMMONWEALTHS ATTORNEY							
<a href="#">10024000 401100 SAL &amp; WAGE</a>	301,652	-1,750	299,902	64,913.79	.00	234,988.21	21.6%
<a href="#">10024000 401100 VICWT SAL &amp; WAGE</a>	46,297	593	46,890	10,843.11	.00	36,046.89	23.1%
<a href="#">10024000 401330 CB STIPEND</a>	8,841	0	8,841	.00	.00	8,841.00	.0%
<a href="#">10024000 402100 FICA</a>	19,050	250	19,300	4,760.81	.00	14,539.19	24.7%
<a href="#">10024000 402100 VICWT FICA</a>	3,494	45	3,539	811.77	.00	2,727.23	22.9%
<a href="#">10024000 402210 VRS</a>	25,319	346	25,665	6,246.73	.00	19,418.27	24.3%
<a href="#">10024000 402210 VICWT VRS</a>	4,818	63	4,881	1,040.38	.00	3,840.62	21.3%
<a href="#">10024000 402300 MEDINS</a>	27,240	0	27,240	5,675.00	.00	21,565.00	20.8%
<a href="#">10024000 402300 VICWT MEDINS</a>	5,880	0	5,880	1,225.00	.00	4,655.00	20.8%
<a href="#">10024000 402400 GRPLIFE</a>	2,858	39	2,897	700.08	.00	2,196.92	24.2%
<a href="#">10024000 402400 VICWT GRPLIFE</a>	544	7	551	116.60	.00	434.40	21.2%
<a href="#">10024000 402700 WORKCOMP</a>	210	0	210	264.47	.00	-54.47	125.9%
<a href="#">10024000 403300 CONTRSVC</a>	0	2,875	2,875	2,568.00	.00	307.00	89.3%
<a href="#">10024000 403320 MAINTCONT</a>	3,674	648	4,322	.00	.00	4,322.00	.0%
<a href="#">10024000 405210 POSTAL</a>	775	0	775	31.53	.00	743.47	4.1%
<a href="#">10024000 405230 TELECOMM</a>	1,700	0	1,700	276.35	.00	1,423.65	16.3%
<a href="#">10024000 405410 LEASERENT</a>	458	0	458	63.65	.00	394.35	13.9%
<a href="#">10024000 405540 CONVEDUC</a>	5,000	0	5,000	2,037.80	.00	2,962.20	40.8%
<a href="#">10024000 405810 DUES</a>	1,210	0	1,210	550.00	.00	660.00	45.5%
<a href="#">10024000 406001 OFFSUPL</a>	4,870	0	4,870	346.37	.00	4,523.63	7.1%
<a href="#">10024000 406012 BOOKS</a>	7,030	0	7,030	711.37	.00	6,318.63	10.1%
<a href="#">10024000 408102 FURN/FIX</a>	7,750	1,500	9,250	.00	.00	9,250.00	.0%
<a href="#">10024000 408107 EDPEQUIP</a>	250	0	250	.00	.00	250.00	.0%
TOTAL COMMONWEALTHS ATTORNEY	478,920	4,616	483,536	103,182.81	.00	380,353.19	21.3%

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ACCOUNTS FOR: 100	GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
310 SHERIFF								
<a href="#">10031000</a>	<a href="#">401100</a>	<a href="#">SAL &amp; WAGE</a>						
		1,434,725	18,365	1,453,090	311,495.17	.00	1,141,594.83	21.4%
<a href="#">10031000</a>	<a href="#">401300</a>	<a href="#">PT SAL/WAG</a>						
		41,007	732	41,739	4,641.15	.00	37,097.85	11.1%
<a href="#">10031000</a>	<a href="#">401310</a>	<a href="#">OT PAY</a>						
		50,000	0	50,000	12,380.79	.00	37,619.21	24.8%
<a href="#">10031000</a>	<a href="#">401320</a>	<a href="#">HOLDISCPAY</a>						
		44,000	0	44,000	5,766.26	.00	38,233.74	13.1%
<a href="#">10031000</a>	<a href="#">401325</a>	<a href="#">CNTRCTWAGE</a>						
		30,000	0	30,000	5,610.00	.00	24,390.00	18.7%
<a href="#">10031000</a>	<a href="#">401331</a>	<a href="#">AC STIPEND</a>						
		12,000	0	12,000	.00	.00	12,000.00	.0%
<a href="#">10031000</a>	<a href="#">402100</a>	<a href="#">FICA</a>						
		117,650	1,461	119,111	25,201.09	.00	93,909.91	21.2%
<a href="#">10031000</a>	<a href="#">402210</a>	<a href="#">VRS</a>						
		148,087	1,943	150,030	29,574.08	.00	120,455.92	19.7%
<a href="#">10031000</a>	<a href="#">402300</a>	<a href="#">MEDINS</a>						
		158,913	0	158,913	34,447.50	.00	124,465.50	21.7%
<a href="#">10031000</a>	<a href="#">402400</a>	<a href="#">GRPLIFE</a>						
		16,601	219	16,820	3,314.31	.00	13,505.69	19.7%
<a href="#">10031000</a>	<a href="#">402700</a>	<a href="#">WORKCOMP</a>						
		19,539	0	19,539	26,000.92	.00	-6,461.92	133.1%
<a href="#">10031000</a>	<a href="#">402750</a>	<a href="#">LINEOFDUTY</a>						
		10,642	0	10,642	11,156.00	.00	-514.00	104.8%
<a href="#">10031000</a>	<a href="#">402810</a>	<a href="#">CLOTHING</a>						
		5,700	0	5,700	.00	.00	5,700.00	.0%
<a href="#">10031000</a>	<a href="#">403100</a>	<a href="#">PROFSVCS</a>						
		746	0	746	85.00	.00	661.00	11.4%
<a href="#">10031000</a>	<a href="#">403300</a>	<a href="#">CONTR SVC</a>						
		2,000	0	2,000	.00	.00	2,000.00	.0%
<a href="#">10031000</a>	<a href="#">403310</a>	<a href="#">REP/MAINT</a>						
		3,200	8,000	11,200	.00	.00	11,200.00	.0%
<a href="#">10031000</a>	<a href="#">403315</a>	<a href="#">VEH REP/MN</a>						
		21,500	11,925	33,425	3,501.62	.00	29,923.38	10.5%
<a href="#">10031000</a>	<a href="#">403320</a>	<a href="#">MAINTCONT</a>						
		19,300	0	19,300	6,251.72	.00	13,048.28	32.4%
<a href="#">10031000</a>	<a href="#">403600</a>	<a href="#">ADVERT</a>						
		1,000	0	1,000	133.00	.00	867.00	13.3%
<a href="#">10031000</a>	<a href="#">405210</a>	<a href="#">POSTAL</a>						
		2,000	0	2,000	468.99	.00	1,531.01	23.4%
<a href="#">10031000</a>	<a href="#">405230</a>	<a href="#">TELECOMM</a>						
		37,000	2,559	39,559	10,873.75	.00	28,685.25	27.5%
<a href="#">10031000</a>	<a href="#">405305</a>	<a href="#">VEHICLEINS</a>						
		18,240	0	18,240	20,955.62	.00	-2,715.62	114.9%
<a href="#">10031000</a>	<a href="#">405410</a>	<a href="#">LEASERENT</a>						
		4,215	0	4,215	466.37	.00	3,748.63	11.1%
<a href="#">10031000</a>	<a href="#">405530</a>	<a href="#">SUB&amp;LODG</a>						
		8,400	0	8,400	1,085.46	.00	7,314.54	12.9%
<a href="#">10031000</a>	<a href="#">405540</a>	<a href="#">CONVEDUC</a>						
		37,200	0	37,200	30,205.00	.00	6,995.00	81.2%
<a href="#">10031000</a>	<a href="#">405550</a>	<a href="#">EXTRADITON</a>						
		1,000	0	1,000	.00	.00	1,000.00	.0%
<a href="#">10031000</a>	<a href="#">405810</a>	<a href="#">DUES</a>						
		2,200	3,000	5,200	345.00	.00	4,855.00	6.6%
<a href="#">10031000</a>	<a href="#">406001</a>	<a href="#">OFFSUPL</a>						
		8,500	0	8,500	2,488.89	.00	6,011.11	29.3%
<a href="#">10031000</a>	<a href="#">406002</a>	<a href="#">FOODSUPL</a>						
		0	0	0	270.40	.00	-270.40	100.0%
<a href="#">10031000</a>	<a href="#">406003</a>	<a href="#">AGRICSUPL</a>						
		500	0	500	.00	.00	500.00	.0%
<a href="#">10031000</a>	<a href="#">406008</a>	<a href="#">VEHFUEL</a>						
		85,000	0	85,000	10,460.21	.00	74,539.79	12.3%
<a href="#">10031000</a>	<a href="#">406009</a>	<a href="#">VEHSUPL</a>						
		21,050	0	21,050	1,948.97	.00	19,101.03	9.3%
<a href="#">10031000</a>	<a href="#">406010</a>	<a href="#">POLICESUPL</a>						
		22,850	0	22,850	597.88	.00	22,252.12	2.6%
<a href="#">10031000</a>	<a href="#">406011</a>	<a href="#">UNIFORMS</a>						
		8,000	2,000	10,000	2,540.69	.00	7,459.31	25.4%
<a href="#">10031000</a>	<a href="#">406011</a>	<a href="#">BEVST UNIFORMS</a>						
		2,638	0	2,638	.00	.00	2,638.00	.0%
<a href="#">10031000</a>	<a href="#">406014</a>	<a href="#">OTHEROPER</a>						
		1,000	0	1,000	43.00	.00	957.00	4.3%
<a href="#">10031000</a>	<a href="#">408101</a>	<a href="#">MACHEQUIP</a>						
		2,500	0	2,500	.00	.00	2,500.00	.0%
<a href="#">10031000</a>	<a href="#">408102</a>	<a href="#">FURN/FIX</a>						
		1,500	3,000	4,500	2,090.73	.00	2,409.27	46.5%
<a href="#">10031000</a>	<a href="#">408103</a>	<a href="#">COMMEQUIP</a>						
		2,000	0	2,000	.00	.00	2,000.00	.0%
TOTAL SHERIFF		2,402,403	53,204	2,455,607	564,399.57	.00	1,891,207.43	23.0%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
320 E911							
<u>10032000 401100 SAL &amp; WAGE</u>	464,393	6,655	471,048	108,154.32	.00	362,893.68	23.0%
<u>10032000 401300 PT SAL/WAG</u>	18,300	266	18,566	231.72	.00	18,334.28	1.2%
<u>10032000 401310 OT PAY</u>	25,000	0	25,000	3,561.59	.00	21,438.41	14.2%
<u>10032000 401320 HOLDISCPAY</u>	20,000	0	20,000	4,153.33	.00	15,846.67	20.8%
<u>10032000 401333 ED STIPEND</u>	3,500	0	3,500	.00	.00	3,500.00	.0%
<u>10032000 402100 FICA</u>	36,054	529	36,583	8,593.14	.00	27,989.86	23.5%
<u>10032000 402210 VRS</u>	43,473	704	44,177	9,238.96	.00	34,938.04	20.9%
<u>10032000 402250 DISABILITY</u>	0	0	0	133.80	.00	-133.80	100.0%
<u>10032000 402300 MEDINS</u>	59,940	0	59,940	14,238.06	.00	45,701.94	23.8%
<u>10032000 402400 GRPLIFE</u>	4,890	79	4,969	1,068.28	.00	3,900.72	21.5%
<u>10032000 402700 WORKCOMP</u>	443	0	443	411.13	.00	31.87	92.8%
<u>10032000 403161 E911 SIGNS</u>	10,506	0	10,506	1,278.40	.00	9,227.60	12.2%
<u>10032000 403300 CONTRSVC</u>	39,981	0	39,981	11,050.00	.00	28,931.00	27.6%
<u>10032000 403310 REP/MAINT</u>	6,000	0	6,000	1,131.79	18,619.78	-13,751.57	329.2%
<u>10032000 403320 E911O MAINTCONT</u>	45,696	0	45,696	34,856.67	.00	10,839.33	76.3%
<u>10032000 405230 TELECOMM</u>	75,000	0	75,000	7,843.31	.00	67,156.69	10.5%
<u>10032000 405410 LEASERENT</u>	1,320	0	1,320	233.17	.00	1,086.83	17.7%
<u>10032000 405510 MILEAGE</u>	500	0	500	.00	.00	500.00	.0%
<u>10032000 405530 SUB&amp;LODG</u>	2,000	0	2,000	457.86	.00	1,542.14	22.9%
<u>10032000 405540 CONVEDUC</u>	2,000	0	2,000	.00	.00	2,000.00	.0%
<u>10032000 405810 DUES</u>	500	0	500	.00	.00	500.00	.0%
<u>10032000 406001 OFFSUPL</u>	2,000	0	2,000	105.68	.00	1,894.32	5.3%
<u>10032000 406011 UNIFORMS</u>	1,200	0	1,200	64.00	.00	1,136.00	5.3%
<u>10032000 406014 OTHEROPER</u>	0	0	0	210.00	.00	-210.00	100.0%
<u>10032000 408107 EDPEQUIP</u>	2,000	0	2,000	.00	.00	2,000.00	.0%
TOTAL E911	864,696	8,233	872,929	207,015.21	18,619.78	647,294.01	25.8%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
325 FIRE AND RESCUE SQUAD							
<u>10032500 402750 LINEOFDUTY</u>	17,030	0	17,030	12,172.00	.00	4,858.00	71.5%
<u>10032500 405308 GENLIAB</u>	180,860	0	180,860	100,800.00	.00	80,060.00	55.7%
<u>10032500 405625 F&amp;R OPER</u>	370,406	0	370,406	104,691.75	.00	265,714.25	28.3%
<u>10032500 405626 F&amp;R CAP</u>	115,000	0	115,000	40,000.00	.00	75,000.00	34.8%
<u>10032500 405627 STFRE STATEFIRE</u>	61,610	0	61,610	.00	.00	61,610.00	.0%
<u>10032500 405628 24LFE 2 FOR LIFE</u>	24,590	0	24,590	.00	.00	24,590.00	.0%
<u>10032500 408109 BUILDING</u>	65,000	0	65,000	.00	.00	65,000.00	.0%
TOTAL FIRE AND RESCUE SQUAD	834,496	0	834,496	257,663.75	.00	576,832.25	30.9%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
<hr/>							
330 FOREST WARDEN							
<u>10033000 405660 FIRESUPPR</u>	9,053	0	9,053	.00	.00	9,053.00	.0%
TOTAL FOREST WARDEN	9,053	0	9,053	.00	.00	9,053.00	.0%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
335 CORRECTION AND DETENTION							
<a href="#">10033500 401114 BOARDCOMP</a>	2,208	0	2,208	425.00	.00	1,783.00	19.2%
<a href="#">10033500 402100 FICA</a>	162	0	162	31.70	.00	130.30	19.6%
<a href="#">10033500 403840 CONFINE</a>	178,893	0	178,893	44,723.31	.00	134,169.69	25.0%
<a href="#">10033500 406002 FOODSUPL</a>	500	0	500	18.78	.00	481.22	3.8%
<a href="#">10033500 407003 BRJDCDEBT</a>	80,133	0	80,133	20,033.75	.00	60,099.25	25.0%
<a href="#">10033500 407004 CVRJ COP</a>	848,256	0	848,256	429,029.00	.00	419,227.00	50.6%
<a href="#">10033500 407005 CVRJDEBT</a>	32,672	0	32,672	.00	.00	32,672.00	.0%
TOTAL CORRECTION AND DETENTION	1,142,824	0	1,142,824	494,261.54	.00	648,562.46	43.2%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
340 BUILDING INSPECTIONS							
<a href="#">10034000 401100 SAL &amp; WAGE</a>	172,456	2,189	174,645	39,998.88	.00	134,646.12	22.9%
<a href="#">10034000 402100 FICA</a>	13,194	167	13,361	2,962.91	.00	10,398.09	22.2%
<a href="#">10034000 402210 VRS</a>	18,133	232	18,365	3,892.92	.00	14,472.08	21.2%
<a href="#">10034000 402300 MEDINS</a>	22,440	0	22,440	4,865.00	.00	17,575.00	21.7%
<a href="#">10034000 402400 GRPLIFE</a>	2,052	26	2,078	430.16	.00	1,647.84	20.7%
<a href="#">10034000 402700 WORKCOMP</a>	2,180	0	2,180	3,309.25	.00	-1,129.25	151.8%
<a href="#">10034000 403100 PROFSVCS</a>	650	0	650	.00	.00	650.00	.0%
<a href="#">10034000 403300 CONTRSVC</a>	1,000	0	1,000	.00	.00	1,000.00	.0%
<a href="#">10034000 405210 POSTAL</a>	400	0	400	86.55	.00	313.45	21.6%
<a href="#">10034000 405230 TELECOMM</a>	2,000	0	2,000	255.78	.00	1,744.22	12.8%
<a href="#">10034000 405540 CONVEDUC</a>	300	0	300	.00	.00	300.00	.0%
<a href="#">10034000 405810 DUES</a>	175	0	175	.00	.00	175.00	.0%
<a href="#">10034000 405997 SURCHG</a>	2,700	0	2,700	.00	.00	2,700.00	.0%
<a href="#">10034000 406001 OFFSUPL</a>	1,500	0	1,500	101.27	.00	1,398.73	6.8%
<a href="#">10034000 406008 VEHFUEL</a>	4,000	0	4,000	543.10	.00	3,456.90	13.6%
<a href="#">10034000 406012 BOOKS</a>	600	0	600	.00	.00	600.00	.0%
<a href="#">10034000 408102 FURN/FIX</a>	0	1,175	1,175	.00	.00	1,175.00	.0%
TOTAL BUILDING INSPECTIONS	243,780	3,789	247,569	56,445.82	.00	191,123.18	22.8%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
345 EMERGENCY MANAGEMENT							
<u>10034500 401100 SAL &amp; WAGE</u>	54,631	693	55,324	12,670.18	.00	42,653.82	22.9%
<u>10034500 402100 FICA</u>	4,181	53	4,234	971.69	.00	3,262.31	22.9%
<u>10034500 402210 VRS</u>	5,745	73	5,818	1,233.11	.00	4,584.89	21.2%
<u>10034500 402300 MEDINS</u>	5,880	0	5,880	1,225.00	.00	4,655.00	20.8%
<u>10034500 402400 GRPLIFE</u>	650	8	658	136.25	.00	521.75	20.7%
<u>10034500 402700 WORKCOMP</u>	60	0	60	53.38	.00	6.62	89.0%
<u>10034500 403100 PROFSVCS</u>	630,000	0	630,000	97,335.95	.00	532,664.05	15.5%
<u>10034500 403500 PRINTING</u>	300	0	300	.00	.00	300.00	.0%
<u>10034500 403600 ADVERT</u>	1,000	0	1,000	.00	.00	1,000.00	.0%
<u>10034500 405510 MILEAGE</u>	50	0	50	.00	.00	50.00	.0%
<u>10034500 405530 SUB&amp;LODG</u>	500	0	500	356.62	.00	143.38	71.3%
<u>10034500 405540 CONVEDUC</u>	13,550	7,825	21,375	3,291.52	.00	18,083.48	15.4%
<u>10034500 405810 DUES</u>	200	0	200	.00	.00	200.00	.0%
<u>10034500 406001 OFFSUPL</u>	300	0	300	193.99	.00	106.01	64.7%
<u>10034500 406008 VEHFUEL</u>	1,800	0	1,800	169.25	.00	1,630.75	9.4%
<u>10034500 406012 BOOKS</u>	100	0	100	.00	.00	100.00	.0%
<u>10034500 406020 EMERSUPP</u>	500	0	500	.00	.00	500.00	.0%
TOTAL EMERGENCY MANAGEMENT	719,447	8,652	728,099	117,636.94	.00	610,462.06	16.2%

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ACCOUNTS FOR: 100	GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
350 ANIMAL CONTROL								
<a href="#">10035000</a>	<a href="#">401100</a>	<a href="#">SAL &amp; WAGE</a>						
		72,719	872	73,591	16,994.77	.00	56,596.23	23.1%
<a href="#">10035000</a>	<a href="#">401310</a>	<a href="#">OT PAY</a>						
		4,500	0	4,500	431.34	.00	4,068.66	9.6%
<a href="#">10035000</a>	<a href="#">401325</a>	<a href="#">CNTRCTWAGE</a>						
		0	0	0	360.00	.00	-360.00	100.0%
<a href="#">10035000</a>	<a href="#">402100</a>	<a href="#">FICA</a>						
		5,908	67	5,975	1,162.86	.00	4,812.14	19.5%
<a href="#">10035000</a>	<a href="#">402210</a>	<a href="#">VRS</a>						
		7,693	92	7,785	1,581.49	.00	6,203.51	20.3%
<a href="#">10035000</a>	<a href="#">402300</a>	<a href="#">MEDINS</a>						
		5,880	0	5,880	4,450.00	.00	1,430.00	75.7%
<a href="#">10035000</a>	<a href="#">402400</a>	<a href="#">GRPLIFE</a>						
		866	10	876	177.89	.00	698.11	20.3%
<a href="#">10035000</a>	<a href="#">402700</a>	<a href="#">WORKCOMP</a>						
		755	0	755	1,229.08	.00	-474.08	162.8%
<a href="#">10035000</a>	<a href="#">402750</a>	<a href="#">LINEOFDUTY</a>						
		693	0	693	697.00	.00	-4.00	100.6%
<a href="#">10035000</a>	<a href="#">403100</a>	<a href="#">PROFSVCS</a>						
		500	0	500	.00	.00	500.00	.0%
<a href="#">10035000</a>	<a href="#">403300</a>	<a href="#">CONTRVCS</a>						
		128,500	250	128,750	43,083.32	.00	85,666.68	33.5%
<a href="#">10035000</a>	<a href="#">403310</a>	<a href="#">REP/MAINT</a>						
		500	0	500	.00	.00	500.00	.0%
<a href="#">10035000</a>	<a href="#">403315</a>	<a href="#">VEH REP/MN</a>						
		3,000	1,800	4,800	15.00	.00	4,785.00	.3%
<a href="#">10035000</a>	<a href="#">403600</a>	<a href="#">ADVERT</a>						
		500	0	500	.00	.00	500.00	.0%
<a href="#">10035000</a>	<a href="#">405230</a>	<a href="#">TELECOMM</a>						
		1,265	0	1,265	.00	.00	1,265.00	.0%
<a href="#">10035000</a>	<a href="#">405305</a>	<a href="#">VEHICLEINS</a>						
		1,000	0	1,000	974.68	.00	25.32	97.5%
<a href="#">10035000</a>	<a href="#">405530</a>	<a href="#">SUB&amp;LODG</a>						
		1,000	0	1,000	195.89	.00	804.11	19.6%
<a href="#">10035000</a>	<a href="#">405540</a>	<a href="#">CONVEDUC</a>						
		750	0	750	.00	.00	750.00	.0%
<a href="#">10035000</a>	<a href="#">405820</a>	<a href="#">CLAIMS</a>						
		2,500	0	2,500	.00	.00	2,500.00	.0%
<a href="#">10035000</a>	<a href="#">405825</a>	<a href="#">S&amp;N TAX</a>						
		1,000	0	1,000	.00	.00	1,000.00	.0%
<a href="#">10035000</a>	<a href="#">406001</a>	<a href="#">OFFSUPL</a>						
		500	0	500	.00	.00	500.00	.0%
<a href="#">10035000</a>	<a href="#">406003</a>	<a href="#">AGRICSUPL</a>						
		400	0	400	124.94	.00	275.06	31.2%
<a href="#">10035000</a>	<a href="#">406008</a>	<a href="#">VEHFUEL</a>						
		5,000	0	5,000	993.57	.00	4,006.43	19.9%
<a href="#">10035000</a>	<a href="#">406009</a>	<a href="#">VEHSUPL</a>						
		600	0	600	13.97	.00	586.03	2.3%
<a href="#">10035000</a>	<a href="#">406011</a>	<a href="#">UNIFORMS</a>						
		1,500	0	1,500	.00	.00	1,500.00	.0%
<a href="#">10035000</a>	<a href="#">406014</a>	<a href="#">OTHEROPER</a>						
		301	0	301	10.50	.00	290.50	3.5%
TOTAL ANIMAL CONTROL		247,830	3,091	250,921	72,496.30	.00	178,424.70	28.9%

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ACCOUNTS FOR: 100	GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
410 LITTER								
<a href="#">10041000</a>	<a href="#">403100</a>	3,300	0	3,300	.00	.00	3,300.00	.0%
<a href="#">10041000</a>	<a href="#">406014</a>	5,269	0	5,269	.00	.00	5,269.00	.0%
TOTAL LITTER		8,569	0	8,569	.00	.00	8,569.00	.0%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
415 FACILITIES							
<a href="#">10041500 401100 SAL &amp; WAGE</a>	302,242	6,636	308,878	66,721.52	.00	242,156.48	21.6%
<a href="#">10041500 401310 OT PAY</a>	8,000	0	8,000	3,755.30	.00	4,244.70	46.9%
<a href="#">10041500 402100 FICA</a>	23,733	293	24,026	5,198.76	.00	18,827.24	21.6%
<a href="#">10041500 402210 VRS</a>	31,805	406	32,211	6,272.26	.00	25,938.74	19.5%
<a href="#">10041500 402250 DISABILITY</a>	0	0	0	31.38	.00	-31.38	100.0%
<a href="#">10041500 402300 MEDINS</a>	52,920	0	52,920	13,199.31	.00	39,720.69	24.9%
<a href="#">10041500 402400 GRPLIFE</a>	3,597	46	3,643	693.01	.00	2,949.99	19.0%
<a href="#">10041500 402700 WORKCOMP</a>	6,803	0	6,803	6,547.94	.00	255.06	96.3%
<a href="#">10041500 403100 PROFSVCS</a>	5,000	0	5,000	.00	.00	5,000.00	.0%
<a href="#">10041500 403300 CONTRSVC</a>	88,000	0	88,000	15,098.50	.00	72,901.50	17.2%
<a href="#">10041500 403310 REP/MAINT</a>	184,700	0	184,700	42,153.95	.00	142,546.05	22.8%
<a href="#">10041500 403315 VEH REP/MN</a>	23,140	0	23,140	3,421.76	.00	19,718.24	14.8%
<a href="#">10041500 403600 ADVERT</a>	350	0	350	.00	.00	350.00	.0%
<a href="#">10041500 403700 LAUNDRY</a>	8,000	0	8,000	1,119.51	.00	6,880.49	14.0%
<a href="#">10041500 405210 POSTAL</a>	350	0	350	6.09	.00	343.91	1.7%
<a href="#">10041500 405230 TELECOMM</a>	5,500	0	5,500	1,430.31	.00	4,069.69	26.0%
<a href="#">10041500 405305 VEHICLEINS</a>	16,000	0	16,000	10,731.28	.00	5,268.72	67.1%
<a href="#">10041500 405410 LEASERENT</a>	1,200	0	1,200	.00	.00	1,200.00	.0%
<a href="#">10041500 405510 MILEAGE</a>	200	0	200	.00	.00	200.00	.0%
<a href="#">10041500 405530 SUB&amp;LODG</a>	2,000	0	2,000	66.92	.00	1,933.08	3.3%
<a href="#">10041500 405540 CONVEDUC</a>	5,000	0	5,000	.00	.00	5,000.00	.0%
<a href="#">10041500 405810 DUES</a>	500	0	500	9.99	.00	490.01	2.0%
<a href="#">10041500 406001 OFFSUPL</a>	1,500	0	1,500	208.45	.00	1,291.55	13.9%
<a href="#">10041500 406003 AGRICSUPL</a>	20,000	0	20,000	3,460.00	.00	16,540.00	17.3%
<a href="#">10041500 406004 GENLSUPL</a>	27,500	0	27,500	3,607.69	.00	23,892.31	13.1%
<a href="#">10041500 406005 JANITSUPL</a>	20,000	0	20,000	2,611.90	.00	17,388.10	13.1%
<a href="#">10041500 406008 VEHFUEL</a>	25,000	0	25,000	2,598.95	.00	22,401.05	10.4%
<a href="#">10041500 406009 VEHSUPL</a>	3,500	0	3,500	1,804.62	.00	1,695.38	51.6%
<a href="#">10041500 406014 OTHEROPER</a>	0	0	0	2,661.62	.00	-2,661.62	100.0%
<a href="#">10041500 408101 MACHEQUIP</a>	22,400	0	22,400	2,169.99	.00	20,230.01	9.7%
<a href="#">10041500 408103 COMMEQUIP</a>	500	0	500	.00	.00	500.00	.0%
TOTAL FACILITIES	889,440	7,381	896,821	195,581.01	.00	701,239.99	21.8%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
<hr/>							
420 GENERAL SERVICES							
<u>10042000 403320 MAINTCONT</u>	124,250	0	124,250	34,440.04	.00	89,809.96	27.7%
<u>10042000 405110 ELECSVCS</u>	230,000	0	230,000	32,249.93	.00	197,750.07	14.0%
<u>10042000 405120 HEATSVCS</u>	130,000	0	130,000	6,184.90	.00	123,815.10	4.8%
<u>10042000 405130 WATRSVCS</u>	8,700	0	8,700	1,387.23	.00	7,312.77	15.9%
<u>10042000 405135 SEWRSVCS</u>	3,000	0	3,000	252.84	.00	2,747.16	8.4%
<u>10042000 405140 STREETLIT</u>	9,000	0	9,000	1,314.39	.00	7,685.61	14.6%
<u>10042000 405230 TELECOMM</u>	15,000	0	15,000	3,421.61	.00	11,578.39	22.8%
<u>10042000 405304 PROPINS</u>	37,000	0	37,000	36,493.00	.00	507.00	98.6%
<u>10042000 405308 GENLIAB</u>	8,000	0	8,000	9,204.00	.00	-1,204.00	115.1%
<u>10042000 405410 LEASERENT</u>	24,000	0	24,000	2,000.00	.00	22,000.00	8.3%
TOTAL GENERAL SERVICES	588,950	0	588,950	126,947.94	.00	462,002.06	21.6%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
425 PUBLIC WORKS							
<a href="#">10042500 401100 SAL &amp; WAGE</a>	170,432	2,163	172,595	39,527.14	.00	133,067.86	22.9%
<a href="#">10042500 402100 FICA</a>	13,038	165	13,203	2,851.54	.00	10,351.46	21.6%
<a href="#">10042500 402210 VRS</a>	17,930	229	18,159	3,847.01	.00	14,311.99	21.2%
<a href="#">10042500 402300 MEDINS</a>	24,780	0	24,780	5,162.50	.00	19,617.50	20.8%
<a href="#">10042500 402400 GRPLIFE</a>	2,028	26	2,054	425.04	.00	1,628.96	20.7%
<a href="#">10042500 402700 WORKCOMP</a>	2,132	0	2,132	3,110.44	.00	-978.44	145.9%
<a href="#">10042500 403100 PROFSVCS</a>	1,200	0	1,200	.00	.00	1,200.00	.0%
<a href="#">10042500 403182 SFTWREFEE</a>	4,200	0	4,200	1,259.70	.00	2,940.30	30.0%
<a href="#">10042500 405230 TELECOMM</a>	2,000	0	2,000	978.78	.00	1,021.22	48.9%
<a href="#">10042500 405410 LEASERENT</a>	2,500	0	2,500	458.13	.00	2,041.87	18.3%
<a href="#">10042500 405530 SUB&amp;LODG</a>	1,000	0	1,000	.00	.00	1,000.00	.0%
<a href="#">10042500 405540 CONVEDUC</a>	2,500	0	2,500	.00	.00	2,500.00	.0%
<a href="#">10042500 406001 OFFSUPL</a>	2,000	0	2,000	.00	.00	2,000.00	.0%
<a href="#">10042500 406008 VEHFUEL</a>	2,500	0	2,500	105.85	.00	2,394.15	4.2%
<a href="#">10042500 406021 ADPSUPL</a>	2,000	0	2,000	.00	.00	2,000.00	.0%
TOTAL PUBLIC WORKS	250,240	2,583	252,823	57,726.13	.00	195,096.87	22.8%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
430 CONVENIENCE CENTER							
<a href="#">10043000 401300 PT SAL/WAG</a>	43,586	530	44,116	11,642.76	.00	32,473.24	26.4%
<a href="#">10043000 401310 OT PAY</a>	1,500	0	1,500	258.23	.00	1,241.77	17.2%
<a href="#">10043000 402100 FICA</a>	3,334	41	3,375	908.12	.00	2,466.88	26.9%
<a href="#">10043000 402300 MEDINS</a>	0	0	0	59.81	.00	-59.81	100.0%
<a href="#">10043000 402700 WORKCOMP</a>	2,615	0	2,615	2,289.42	.00	325.58	87.5%
<a href="#">10043000 403170 PERMITFEE</a>	1,200	0	1,200	1,087.00	.00	113.00	90.6%
<a href="#">10043000 403300 CONTRSVC</a>	66,200	0	66,200	9,680.15	.00	56,519.85	14.6%
<a href="#">10043000 403310 REP/MAINT</a>	20,500	0	20,500	4,802.68	.00	15,697.32	23.4%
<a href="#">10043000 405230 TELECOMM</a>	1,200	0	1,200	216.76	.00	983.24	18.1%
<a href="#">10043000 405410 LEASERENT</a>	800	0	800	120.00	.00	680.00	15.0%
<a href="#">10043000 406001 OFFSUPL</a>	550	0	550	55.69	.00	494.31	10.1%
<a href="#">10043000 406008 VEHFUEL</a>	500	0	500	297.64	.00	202.36	59.5%
TOTAL CONVENIENCE CENTER	141,985	571	142,556	31,418.26	.00	111,137.74	22.0%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
435 LANDFILL POST CLOSURE							
<a href="#">10043500 403100 PROFSVCS</a>	30,000	0	30,000	797.00	.00	29,203.00	2.7%
TOTAL LANDFILL POST CLOSURE	30,000	0	30,000	797.00	.00	29,203.00	2.7%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
510 HEALTH							
<u>10051000 403300 CONTRSVC</u>	257,310	0	257,310	64,327.50	.00	192,982.50	25.0%
<u>10051000 405230 TELECOMM</u>	0	0	0	280.60	.00	-280.60	100.0%
TOTAL HEALTH	257,310	0	257,310	64,608.10	.00	192,701.90	25.1%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
515 VJCCCA							
<a href="#">10051500 403100 VJCCA PROFSVCS</a>	6,585	0	6,585	1,080.00	.00	5,505.00	16.4%
TOTAL VJCCCA	6,585	0	6,585	1,080.00	.00	5,505.00	16.4%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
520 CSA							
<u>10052000 401100 SAL &amp; WAGE</u>	61,034	775	61,809	14,155.18	.00	47,653.82	22.9%
<u>10052000 402100 FICA</u>	4,669	59	4,728	1,089.08	.00	3,638.92	23.0%
<u>10052000 402210 VRS</u>	6,437	82	6,519	1,377.65	.00	5,141.35	21.1%
<u>10052000 402300 MEDINS</u>	5,880	0	5,880	1,225.00	.00	4,655.00	20.8%
<u>10052000 402400 GRPLIFE</u>	727	9	736	152.22	.00	583.78	20.7%
<u>10052000 402700 WORKCOMP</u>	62	0	62	60.75	.00	1.25	98.0%
<u>10052000 403100 PROFSVCS</u>	500	0	500	.00	.00	500.00	.0%
<u>10052000 405210 POSTAL</u>	1,000	0	1,000	226.63	.00	773.37	22.7%
<u>10052000 405230 TELECOMM</u>	150	0	150	28.08	.00	121.92	18.7%
<u>10052000 405410 LEASERENT</u>	540	0	540	138.35	.00	401.65	25.6%
<u>10052000 405510 MILEAGE</u>	600	0	600	.00	.00	600.00	.0%
<u>10052000 405530 SUB&amp;LODG</u>	500	0	500	.00	.00	500.00	.0%
<u>10052000 405540 CONVEDUC</u>	400	0	400	235.00	.00	165.00	58.8%
<u>10052000 406001 OFFSUPL</u>	1,100	0	1,100	.00	.00	1,100.00	.0%
<u>10052000 406002 FOODSUPL</u>	400	0	400	.00	.00	400.00	.0%
<u>10052000 408102 FURN/FIX</u>	250	1,150	1,400	.00	.00	1,400.00	.0%
TOTAL CSA	84,249	2,075	86,324	18,687.94	.00	67,636.06	21.6%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
525 CSA PURCHASE OF SERVICES							
<a href="#">10052500 405714</a> MANDFFMP	10,000	0	10,000	.00	.00	10,000.00	.0%
<a href="#">10052500 405715</a> MANDFFOP	25,000	0	25,000	1,031.54	.00	23,968.46	4.1%
<a href="#">10052500 405716</a> TFCLRCONG	150,000	0	150,000	7,881.52	.00	142,118.48	5.3%
<a href="#">10052500 405718</a> COMMSVC	500,000	0	500,000	55,386.77	.00	444,613.23	11.1%
<a href="#">10052500 405719</a> COMMSVTR	25,000	0	25,000	.00	.00	25,000.00	.0%
<a href="#">10052500 405720</a> NONMCOMM	26,170	0	26,170	.00	.00	26,170.00	.0%
<a href="#">10052500 405721</a> RESCONG	700,000	0	700,000	45,360.36	.00	654,639.64	6.5%
<a href="#">10052500 405723</a> MSPEDPRIV	500,000	0	500,000	128,646.00	.00	371,354.00	25.7%
<a href="#">10052500 405724</a> MSVCINSCH	20,000	0	20,000	.00	.00	20,000.00	.0%
<a href="#">10052500 405725</a> MFCLCRESCG	175,000	0	175,000	14,328.82	.00	160,671.18	8.2%
<a href="#">10052500 405726</a> THERFC4E	10,000	0	10,000	.00	.00	10,000.00	.0%
<a href="#">10052500 405732</a> EDUCCONG	325,000	0	325,000	13,927.00	.00	311,073.00	4.3%
<a href="#">10052500 405742</a> WSS	20,543	0	20,543	.00	.00	20,543.00	.0%
<a href="#">10052500 406014</a> OTHEROPER	-200,000	0	-200,000	.00	.00	-200,000.00	.0%
TOTAL CSA PURCHASE OF SERVICES	2,286,713	0	2,286,713	266,562.01	.00	2,020,150.99	11.7%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
710 PARKS & RECREATION							
<a href="#">10071000 401100 SAL &amp; WAGE</a>	189,119	2,373	191,492	43,499.49	.00	147,992.51	22.7%
<a href="#">10071000 401300 PT SAL/WAG</a>	56,088	554	56,642	16,331.31	.00	40,310.69	28.8%
<a href="#">10071000 401310 OT PAY</a>	1,100	0	1,100	948.12	.00	151.88	86.2%
<a href="#">10071000 402100 FICA</a>	18,758	224	18,982	4,533.10	.00	14,448.90	23.9%
<a href="#">10071000 402210 VRS</a>	19,930	251	20,181	4,236.30	.00	15,944.70	21.0%
<a href="#">10071000 402250 DISABILITY</a>	0	0	0	36.52	.00	-36.52	100.0%
<a href="#">10071000 402300 MEDINS</a>	19,980	0	19,980	7,125.00	.00	12,855.00	35.7%
<a href="#">10071000 402400 GRPLIFE</a>	2,250	28	2,278	468.09	.00	1,809.91	20.5%
<a href="#">10071000 402700 WORKCOMP</a>	3,198	0	3,198	4,303.52	.00	-1,105.52	134.6%
<a href="#">10071000 403100 PROFSVCS</a>	32,500	0	32,500	10,282.53	.00	22,217.47	31.6%
<a href="#">10071000 403300 CONTRSVC</a>	11,160	0	11,160	5,347.82	.00	5,812.18	47.9%
<a href="#">10071000 403500 PRINTING</a>	8,000	0	8,000	1,398.40	.00	6,601.60	17.5%
<a href="#">10071000 403600 ADVERT</a>	1,000	0	1,000	1,510.97	.00	-510.97	151.1%
<a href="#">10071000 405210 POSTAL</a>	500	0	500	.00	.00	500.00	.0%
<a href="#">10071000 405230 TELECOMM</a>	9,900	0	9,900	2,260.52	.00	7,639.48	22.8%
<a href="#">10071000 405410 LEASERENT</a>	7,740	0	7,740	1,933.16	.00	5,806.84	25.0%
<a href="#">10071000 405510 MILEAGE</a>	100	0	100	.00	.00	100.00	.0%
<a href="#">10071000 405530 SUB&amp;LODG</a>	1,500	0	1,500	.00	.00	1,500.00	.0%
<a href="#">10071000 405540 CONVEDUC</a>	2,000	0	2,000	2,088.47	.00	-88.47	104.4%
<a href="#">10071000 405810 DUES</a>	1,060	0	1,060	1,025.00	.00	35.00	96.7%
<a href="#">10071000 406001 OFFSUPL</a>	2,500	0	2,500	932.53	.00	1,567.47	37.3%
<a href="#">10071000 406003 AGRICSUPL</a>	0	0	0	23.52	.00	-23.52	100.0%
<a href="#">10071000 406008 VEHFUEL</a>	3,500	0	3,500	1,063.34	.00	2,436.66	30.4%
<a href="#">10071000 406011 UNIFORMS</a>	420	0	420	.00	.00	420.00	.0%
<a href="#">10071000 406012 BOOKS</a>	500	0	500	.00	.00	500.00	.0%
<a href="#">10071000 406013 RECSUPL</a>	43,700	0	43,700	23,114.76	.00	20,585.24	52.9%
<a href="#">10071000 406013 AMUSE RECSUPL</a>	21,000	0	21,000	2,590.00	.00	18,410.00	12.3%
<a href="#">10071000 406013 FTBL RECSUPL</a>	2,500	0	2,500	.00	.00	2,500.00	.0%
<a href="#">10071000 408102 FURN/FIX</a>	0	0	0	699.72	.00	-699.72	100.0%
<a href="#">10071000 409904 SITEIMPRV</a>	18,400	10,000	28,400	21,983.56	.00	6,416.44	77.4%
TOTAL PARKS & RECREATION	478,403	13,430	491,833	157,735.75	.00	334,097.25	32.1%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
730 LIBRARY							
<a href="#">10073000 401100 SAL &amp; WAGE</a>	116,506	1,474	117,980	26,927.93	.00	91,052.07	22.8%
<a href="#">10073000 401300 PT SAL/WAG</a>	22,018	0	22,018	5,753.82	.00	16,264.18	26.1%
<a href="#">10073000 402100 FICA</a>	10,597	113	10,710	2,412.84	.00	8,297.16	22.5%
<a href="#">10073000 402210 VRS</a>	12,244	156	12,400	2,620.80	.00	9,779.20	21.1%
<a href="#">10073000 402250 DISABILITY</a>	0	0	0	31.50	.00	-31.50	100.0%
<a href="#">10073000 402300 MEDINS</a>	14,100	0	14,100	2,937.50	.00	11,162.50	20.8%
<a href="#">10073000 402400 GRPLIFE</a>	1,387	18	1,405	289.54	.00	1,115.46	20.6%
<a href="#">10073000 402700 WORKCOMP</a>	132	0	132	116.59	.00	15.41	88.3%
<a href="#">10073000 403320 MAINTCONT</a>	5,100	0	5,100	66.45	.00	5,033.55	1.3%
<a href="#">10073000 405210 POSTAL</a>	1,300	0	1,300	.00	.00	1,300.00	.0%
<a href="#">10073000 405230 TELECOMM</a>	0	0	0	6,586.53	.00	-6,586.53	100.0%
<a href="#">10073000 405230 LIBAD TELECOMM</a>	25,200	0	25,200	.00	.00	25,200.00	.0%
<a href="#">10073000 405410 LEASERENT</a>	120	0	120	10.00	.00	110.00	8.3%
<a href="#">10073000 405530 SUB&amp;LODG</a>	750	0	750	.00	.00	750.00	.0%
<a href="#">10073000 405540 CONVEDUC</a>	750	0	750	.00	.00	750.00	.0%
<a href="#">10073000 405810 DUES</a>	150	0	150	50.00	.00	100.00	33.3%
<a href="#">10073000 406001 OFFSUPL</a>	8,000	0	8,000	1,612.04	.00	6,387.96	20.2%
<a href="#">10073000 406012 BOOKS</a>	7,000	0	7,000	2,012.37	.00	4,987.63	28.7%
<a href="#">10073000 406012 LIBAD BOOKS</a>	62,580	0	62,580	31,342.50	.00	31,237.50	50.1%
<a href="#">10073000 408102 FURN/FIX</a>	1,700	0	1,700	214.14	.00	1,485.86	12.6%
<a href="#">10073000 408107 EDPEQUIP</a>	10,090	0	10,090	2,716.00	.00	7,374.00	26.9%
TOTAL LIBRARY	299,724	1,761	301,485	85,700.55	.00	215,784.45	28.4%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
810 COUNTY PLANNER							
<u>10081000 401100 SAL &amp; WAGE</u>	230,993	2,940	233,933	53,776.89	.00	180,156.11	23.0%
<u>10081000 401310 OT PAY</u>	2,500	0	2,500	658.25	.00	1,841.75	26.3%
<u>10081000 402100 FICA</u>	17,431	225	17,656	4,015.11	.00	13,640.89	22.7%
<u>10081000 402210 VRS</u>	23,867	311	24,178	5,227.77	.00	18,950.23	21.6%
<u>10081000 402250 DISABILITY</u>	0	0	0	39.94	.00	-39.94	100.0%
<u>10081000 402300 MEDINS</u>	38,880	0	38,880	6,574.44	.00	32,305.56	16.9%
<u>10081000 402400 GRPLIFE</u>	2,712	35	2,747	577.64	.00	2,169.36	21.0%
<u>10081000 402700 WORKCOMP</u>	953	0	953	2,326.85	.00	-1,373.85	244.2%
<u>10081000 403100 PROFSVCS</u>	0	0	0	4,000.00	.00	-4,000.00	100.0%
<u>10081000 403300 CONTRSVC</u>	10,000	0	10,000	1,200.00	.00	8,800.00	12.0%
<u>10081000 403600 ADVERT</u>	500	0	500	337.50	.00	162.50	67.5%
<u>10081000 405210 POSTAL</u>	750	0	750	1,886.15	.00	-1,136.15	251.5%
<u>10081000 405230 TELECOMM</u>	2,000	0	2,000	422.37	.00	1,577.63	21.1%
<u>10081000 405410 LEASERENT</u>	4,000	0	4,000	931.53	.00	3,068.47	23.3%
<u>10081000 405530 SUB&amp;LODG</u>	1,000	0	1,000	515.97	.00	484.03	51.6%
<u>10081000 405540 CONVEDUC</u>	2,000	0	2,000	956.58	.00	1,043.42	47.8%
<u>10081000 405810 DUES</u>	1,500	0	1,500	.00	.00	1,500.00	.0%
<u>10081000 406001 OFFSUPL</u>	2,500	0	2,500	240.03	.00	2,259.97	9.6%
<u>10081000 406008 VEHFUEL</u>	1,000	0	1,000	291.55	.00	708.45	29.2%
<u>10081000 406012 BOOKS</u>	250	0	250	.00	.00	250.00	.0%
<u>10081000 408102 FURN/FIX</u>	750	1,175	1,925	.00	.00	1,925.00	.0%
TOTAL COUNTY PLANNER	343,586	4,686	348,272	83,978.57	.00	264,293.43	24.1%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
815 PLANNING COMMISSION							
<u>10081500 401114 BOARDCOMP</u>	12,900	0	12,900	2,976.96	.00	9,923.04	23.1%
<u>10081500 402100 FICA</u>	987	0	987	215.66	.00	771.34	21.9%
<u>10081500 403100 PROFSVCS</u>	10,000	0	10,000	4,000.00	.00	6,000.00	40.0%
<u>10081500 403600 ADVERT</u>	5,500	0	5,500	1,318.00	.00	4,182.00	24.0%
<u>10081500 405210 POSTAL</u>	2,000	0	2,000	411.11	.00	1,588.89	20.6%
<u>10081500 405510 MILEAGE</u>	200	0	200	.00	.00	200.00	.0%
<u>10081500 405530 SUB&amp;LODG</u>	500	0	500	.00	.00	500.00	.0%
<u>10081500 405540 CONVEDUC</u>	750	0	750	.00	.00	750.00	.0%
<u>10081500 406001 OFFSUPL</u>	0	0	0	124.64	.00	-124.64	100.0%
TOTAL PLANNING COMMISSION	32,837	0	32,837	9,046.37	.00	23,790.63	27.5%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
820 BOARD OF ZONING APPEALS							
<a href="#">10082000 401114 BOARDCOMP</a>	1,200	0	1,200	.00	.00	1,200.00	.0%
<a href="#">10082000 402100 FICA</a>	100	0	100	.00	.00	100.00	.0%
<a href="#">10082000 405510 MILEAGE</a>	100	0	100	.00	.00	100.00	.0%
<a href="#">10082000 405540 CONVEDUC</a>	300	0	300	.00	.00	300.00	.0%
TOTAL BOARD OF ZONING APPEALS	1,700	0	1,700	.00	.00	1,700.00	.0%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
830 ECONOMIC DEVELOPMENT							
<a href="#">10083000 401100 SAL &amp; WAGE</a>	77,805	988	78,793	18,044.78	.00	60,748.22	22.9%
<a href="#">10083000 402100 FICA</a>	5,952	76	6,028	1,380.20	.00	4,647.80	22.9%
<a href="#">10083000 402210 VRS</a>	8,189	104	8,293	1,756.21	.00	6,536.79	21.2%
<a href="#">10083000 402300 MEDINS</a>	5,880	0	5,880	1,225.00	.00	4,655.00	20.8%
<a href="#">10083000 402400 GRPLIFE</a>	926	12	938	194.06	.00	743.94	20.7%
<a href="#">10083000 402700 WORKCOMP</a>	1,058	0	1,058	76.49	.00	981.51	7.2%
<a href="#">10083000 403100 PROFSVCS</a>	6,000	0	6,000	1,400.00	.00	4,600.00	23.3%
<a href="#">10083000 403500 PRINTING</a>	1,000	0	1,000	.00	.00	1,000.00	.0%
<a href="#">10083000 403600 ADVERT</a>	500	0	500	.00	.00	500.00	.0%
<a href="#">10083000 405210 POSTAL</a>	100	0	100	12.00	.00	88.00	12.0%
<a href="#">10083000 405230 TELECOMM</a>	700	0	700	163.57	.00	536.43	23.4%
<a href="#">10083000 405510 MILEAGE</a>	250	0	250	.00	.00	250.00	.0%
<a href="#">10083000 405530 SUB&amp;LODG</a>	2,000	0	2,000	262.96	.00	1,737.04	13.1%
<a href="#">10083000 405540 CONVEDUC</a>	2,000	0	2,000	.00	.00	2,000.00	.0%
<a href="#">10083000 405810 DUES</a>	500	0	500	.00	.00	500.00	.0%
<a href="#">10083000 406001 OFFSUPL</a>	500	0	500	.00	.00	500.00	.0%
<a href="#">10083000 407010 FEDA</a>	1,000	0	1,000	.00	.00	1,000.00	.0%
<a href="#">10083000 407030 ZXTOURCTR</a>	1,500	0	1,500	.00	.00	1,500.00	.0%
TOTAL ECONOMIC DEVELOPMENT	115,860	1,180	117,040	24,515.27	.00	92,524.73	20.9%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
840 COOPERATIVE EXTENSION							
<a href="#">10084000 403300 CONTRSVC</a>	72,375	0	72,375	4,209.29	.00	68,165.71	5.8%
<a href="#">10084000 405230 TELECOMM</a>	1,000	0	1,000	409.18	.00	590.82	40.9%
<a href="#">10084000 405410 LEASERENT</a>	250	0	250	.00	.00	250.00	.0%
<a href="#">10084000 405540 CONVEDUC</a>	1,750	0	1,750	667.42	.00	1,082.58	38.1%
<a href="#">10084000 405810 DUES</a>	375	0	375	.00	.00	375.00	.0%
<a href="#">10084000 406001 OFFSUPL</a>	500	0	500	148.62	.00	351.38	29.7%
<a href="#">10084000 406003 AGRICSUPL</a>	1,200	0	1,200	117.95	.00	1,082.05	9.8%
<a href="#">10084000 406014 OTHEROPER</a>	1,500	0	1,500	49.15	.00	1,450.85	3.3%
TOTAL COOPERATIVE EXTENSION	78,950	0	78,950	5,601.61	.00	73,348.39	7.1%

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ACCOUNTS FOR: 100	GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
850 NON PROFITS								
<a href="#">10085000</a>	<a href="#">405623</a>	<a href="#">SCVILLFIRE</a>		9,000	9,000.00	.00	.00	100.0%
<a href="#">10085000</a>	<a href="#">405624</a>	<a href="#">SCVILLRESQ</a>		15,000	15,000.00	.00	.00	100.0%
<a href="#">10085000</a>	<a href="#">405668</a>	<a href="#">RRBC</a>	500	500	500.00	.00	.00	100.0%
<a href="#">10085000</a>	<a href="#">405670</a>	<a href="#">PVCC</a>		7,228	7,228.00	.00	.00	100.0%
<a href="#">10085000</a>	<a href="#">405671</a>	<a href="#">SBDC</a>		2,500	2,500.00	.00	.00	100.0%
<a href="#">10085000</a>	<a href="#">405672</a>	<a href="#">TJPDC</a>		31,684	15,842.00	.00	15,842.00	50.0%
<a href="#">10085000</a>	<a href="#">405673</a>	<a href="#">S&amp;W</a>		20,000	20,000.00	.00	.00	100.0%
<a href="#">10085000</a>	<a href="#">405674</a>	<a href="#">JABA</a>		83,946	41,973.00	.00	41,973.00	50.0%
<a href="#">10085000</a>	<a href="#">405675</a>	<a href="#">MACAA</a>		49,913	24,956.50	.00	24,956.50	50.0%
<a href="#">10085000</a>	<a href="#">405676</a>	<a href="#">REGION10</a>		126,250	63,125.00	.00	63,125.00	50.0%
<a href="#">10085000</a>	<a href="#">405677</a>	<a href="#">JAUNT</a>		78,141	39,070.50	.00	39,070.50	50.0%
<a href="#">10085000</a>	<a href="#">405678</a>	<a href="#">TJEMS</a>		16,095	16,095.00	.00	.00	100.0%
<a href="#">10085000</a>	<a href="#">405679</a>	<a href="#">CVPED</a>		13,009	13,009.00	.00	.00	100.0%
<a href="#">10085000</a>	<a href="#">405680</a>	<a href="#">PHA</a>		2,100	2,100.00	.00	.00	100.0%
<a href="#">10085000</a>	<a href="#">405681</a>	<a href="#">CYFS</a>		2,100	2,100.00	.00	.00	100.0%
<a href="#">10085000</a>	<a href="#">405682</a>	<a href="#">PWN</a>		3,150	3,150.00	.00	.00	100.0%
<a href="#">10085000</a>	<a href="#">405683</a>	<a href="#">CHIP</a>		51,000	25,500.00	.00	25,500.00	50.0%
<a href="#">10085000</a>	<a href="#">405684</a>	<a href="#">SHE</a>		9,000	9,000.00	.00	.00	100.0%
<a href="#">10085000</a>	<a href="#">405685</a>	<a href="#">OAR</a>		13,261	13,261.00	.00	.00	100.0%
<a href="#">10085000</a>	<a href="#">405686</a>	<a href="#">LEGALAID</a>		4,000	4,000.00	.00	.00	100.0%
<a href="#">10085000</a>	<a href="#">405687</a>	<a href="#">SARA</a>		1,000	1,000.00	.00	.00	100.0%
<a href="#">10085000</a>	<a href="#">405688</a>	<a href="#">STREAMWA</a>		1,750	1,750.00	.00	.00	100.0%
<a href="#">10085000</a>	<a href="#">405691</a>	<a href="#">FLUVHF</a>		16,000	16,000.00	.00	.00	100.0%
<a href="#">10085000</a>	<a href="#">405692</a>	<a href="#">ARTS ARTS</a>		10,000	.00	.00	10,000.00	.0%
<a href="#">10085000</a>	<a href="#">405693</a>	<a href="#">MUSEUM</a>		525	525.00	.00	.00	100.0%
<a href="#">10085000</a>	<a href="#">405694</a>	<a href="#">LEADPROG</a>		1,000	1,000.00	.00	.00	100.0%
<a href="#">10085000</a>	<a href="#">407020</a>	<a href="#">FCOC</a>		3,500	3,500.00	.00	.00	100.0%
TOTAL NON PROFITS		571,152	500	571,652	351,185.00	.00	220,467.00	61.4%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
860 MISCELLANEOUS NON DEPARTMENTAL							
<a href="#">10086000 401100 FT WAGES</a>	91,722	-91,722	0	.00	.00	.00	.0%
<a href="#">10086000 402300 MEDINS</a>	6,485	0	6,485	.00	.00	6,485.00	.0%
<a href="#">10086000 403100 PROFSVCS</a>	25,000	0	25,000	.00	.00	25,000.00	.0%
<a href="#">10086000 405860 GRTCONT</a>	25,000	0	25,000	.00	.00	25,000.00	.0%
<a href="#">10086000 405870 BOSCONT</a>	150,000	-750	149,250	.00	.00	149,250.00	.0%
<a href="#">10086000 405880 PERSCONTIG</a>	50,000	-2,800	47,200	.00	.00	47,200.00	.0%
TOTAL MISCELLANEOUS NON DEPARTMENTAL	348,207	-95,272	252,935	.00	.00	252,935.00	.0%

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ACCOUNTS FOR: 100 GENERAL FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
870 TRANSFER TO OTHER FUNDS							
<a href="#">10087000 409105 TXFRTOSS</a>	869,721	7,252	876,973	.00	.00	876,973.00	.0%
<a href="#">10087000 409251 TXFRTOSCH</a>	16,109,416	0	16,109,416	.00	.00	16,109,416.00	.0%
<a href="#">10087000 409302 TXFRTOCIP</a>	1,735,498	197,900	1,933,398	.00	.00	1,933,398.00	.0%
<a href="#">10087000 409401 TXFRTODBT</a>	7,894,437	0	7,894,437	.00	.00	7,894,437.00	.0%
<a href="#">10087000 409502 TXFRTOUTL</a>	193,183	601	193,784	.00	.00	193,784.00	.0%
<a href="#">10087000 409505 TXFRTOFSD</a>	0	1,766	1,766	.00	.00	1,766.00	.0%
TOTAL TRANSFER TO OTHER FUNDS	26,802,255	207,519	27,009,774	.00	.00	27,009,774.00	.0%
TOTAL GENERAL FUND	43,777,413	274,509	44,051,922	4,035,395.50	20,237.84	39,996,288.66	9.2%
TOTAL EXPENSES	43,777,413	274,509	44,051,922	4,035,395.50	20,237.84	39,996,288.66	

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COUNTY OF FLUVANNA  
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ACCOUNTS FOR: 105 SOCIAL SERVICES	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
530 SOCIAL SERVICE ADMINISTRATION							
<a href="#">10553000 401100 SAL &amp; WAGE</a>	1,191,692	5,115	1,196,807	214,912.59	.00	981,894.41	18.0%
<a href="#">10553000 401114 BOARDCOMP</a>	4,677	0	4,677	1,079.28	.00	3,597.72	23.1%
<a href="#">10553000 401300 PT SAL/WAG</a>	52,205	13,737	65,942	13,501.73	.00	52,440.27	20.5%
<a href="#">10553000 401310 OT PAY</a>	0	13,545	13,545	5,088.39	.00	8,456.61	37.6%
<a href="#">10553000 401320 HOLDISCPAY</a>	8,000	0	8,000	59.63	.00	7,940.37	.7%
<a href="#">10553000 402100 FICA</a>	89,654	472	90,126	17,076.54	.00	73,049.46	18.9%
<a href="#">10553000 402210 VRS</a>	110,969	541	111,510	19,599.40	.00	91,910.60	17.6%
<a href="#">10553000 402250 DISABILITY</a>	0	0	0	316.78	.00	-316.78	100.0%
<a href="#">10553000 402300 MEDINS</a>	177,955	0	177,955	32,156.13	.00	145,798.87	18.1%
<a href="#">10553000 402400 GRPLIFE</a>	12,533	62	12,595	2,175.32	.00	10,419.68	17.3%
<a href="#">10553000 402700 WORKCOMP</a>	4,505	0	4,505	.00	.00	4,505.00	.0%
<a href="#">10553000 402830 STAFFDVLP</a>	4,000	0	4,000	580.71	.00	3,419.29	14.5%
<a href="#">10553000 403100 PROFSVCS</a>	41,680	0	41,680	1,912.36	.00	39,767.64	4.6%
<a href="#">10553000 403125 IT SERVICE</a>	17,540	0	17,540	.00	.00	17,540.00	.0%
<a href="#">10553000 403310 REP/MAINT</a>	4,760	0	4,760	1,951.80	.00	2,808.20	41.0%
<a href="#">10553000 403315 VEH REP/MN</a>	11,550	0	11,550	.00	.00	11,550.00	.0%
<a href="#">10553000 403320 MAINTCONT</a>	12,238	0	12,238	.00	.00	12,238.00	.0%
<a href="#">10553000 403600 ADVERT</a>	1,400	0	1,400	92.00	.00	1,308.00	6.6%
<a href="#">10553000 405110 ELECSVCS</a>	12,100	0	12,100	3,280.76	.00	8,819.24	27.1%
<a href="#">10553000 405120 HEATSVCS</a>	2,300	0	2,300	.00	.00	2,300.00	.0%
<a href="#">10553000 405210 POSTAL</a>	7,184	0	7,184	1,188.65	.00	5,995.35	16.5%
<a href="#">10553000 405230 TELECOMM</a>	14,199	0	14,199	2,596.03	.00	11,602.97	18.3%
<a href="#">10553000 405304 PROPINS</a>	5,319	0	5,319	1,367.00	.00	3,952.00	25.7%
<a href="#">10553000 405410 LEASERENT</a>	14,009	0	14,009	2,334.88	.00	11,674.12	16.7%
<a href="#">10553000 405510 MILEAGE</a>	250	0	250	.00	.00	250.00	.0%
<a href="#">10553000 405530 SUB&amp;LODG</a>	1,750	0	1,750	169.79	.00	1,580.21	9.7%
<a href="#">10553000 405810 DUES</a>	1,460	0	1,460	195.00	.00	1,265.00	13.4%
<a href="#">10553000 406001 OFFSUPL</a>	15,000	0	15,000	.00	.00	15,000.00	.0%
<a href="#">10553000 406002 FOODSUPL</a>	420	0	420	55.70	.00	364.30	13.3%
<a href="#">10553000 406005 JANITSUPL</a>	300	0	300	.00	.00	300.00	.0%
<a href="#">10553000 406008 VEHFUEL</a>	5,760	0	5,760	643.66	.00	5,116.34	11.2%
<a href="#">10553000 408101 MACHEQUIP</a>	758	0	758	.00	.00	758.00	.0%
<a href="#">10553000 408102 FURN/FIX</a>	0	0	0	1,806.30	.00	-1,806.30	100.0%
TOTAL SOCIAL SERVICE ADMINISTRATION	1,826,167	33,472	1,859,639	324,140.43	.00	1,535,498.57	17.4%

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ACCOUNTS FOR: 105 SOCIAL SERVICES	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
540 PUBLIC ASSISTANCE							
<a href="#">10554000 405701 GENRELF</a>	7,000	0	7,000	288.00	.00	6,712.00	4.1%
<a href="#">10554000 405702 AUXGRTS</a>	10,000	0	10,000	5,840.00	.00	4,160.00	58.4%
<a href="#">10554000 405705 AIDDEPCHDN</a>	2,000	0	2,000	.00	.00	2,000.00	.0%
<a href="#">10554000 405706 FOSTERCARE</a>	25,000	0	25,000	6,776.00	.00	18,224.00	27.1%
<a href="#">10554000 405707 EMRGASST</a>	500	0	500	.00	.00	500.00	.0%
<a href="#">10554000 405709 SPECNDSADP</a>	152,000	0	152,000	16,903.00	.00	135,097.00	11.1%
<a href="#">10554000 405712 SUBADOPIVE</a>	236,762	0	236,762	40,328.00	.00	196,434.00	17.0%
TOTAL PUBLIC ASSISTANCE	433,262	0	433,262	70,135.00	.00	363,127.00	16.2%

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ACCOUNTS FOR: 105 SOCIAL SERVICES	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
550 PURCHASE OF SERVICES							
<a href="#">10555000 405711 SSPOS</a>	60,313	0	60,313	3,787.84	.00	56,525.16	6.3%
TOTAL PURCHASE OF SERVICES	60,313	0	60,313	3,787.84	.00	56,525.16	6.3%

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ACCOUNTS FOR:  
105 SOCIAL SERVICES

ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
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560 DAYCARE PROGRAM

<a href="#">10556000 403100 PROFSVCS</a>	7,425	0	7,425	.00	.00	7,425.00	.0%
TOTAL DAYCARE PROGRAM	7,425	0	7,425	.00	.00	7,425.00	.0%

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ACCOUNTS FOR: 105 SOCIAL SERVICES	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
570 FOSTER HOME COORDINATOR							
<u>10557000 403300 CONTRSVC</u>	1,400	0	1,400	.00	.00	1,400.00	.0%
<u>10557000 405711 SSPOS</u>	6,400	0	6,400	.00	.00	6,400.00	.0%
TOTAL FOSTER HOME COORDINATOR	7,800	0	7,800	.00	.00	7,800.00	.0%

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ACCOUNTS FOR: 105 SOCIAL SERVICES	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
<hr/>							
580 FAMILY SUPPORT							
<a href="#">10558000 405711 SSPOS</a>	20,964	0	20,964	2,228.74	.00	18,735.26	10.6%
TOTAL FAMILY SUPPORT	20,964	0	20,964	2,228.74	.00	18,735.26	10.6%
TOTAL SOCIAL SERVICES	2,355,931	33,472	2,389,403	400,292.01	.00	1,989,110.99	16.8%
TOTAL EXPENSES	2,355,931	33,472	2,389,403	400,292.01	.00	1,989,110.99	

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ACCOUNTS FOR:  
251 SCHOOL

ORIGINAL  
APPROP

TRANFRS/  
ADJSTMTS

REVISED  
BUDGET

YTD EXPENDED

ENCUMBRANCES

AVAILABLE  
BUDGET

PCT  
USED

620 INSTRUCTION

---

[25162000 496001 INSTRUCT](#)

27,321,443

32,707

27,354,150

.00

.00

27,354,150.19

.0%

TOTAL INSTRUCTION

27,321,443

32,707

27,354,150

.00

.00

27,354,150.19

.0%

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ACCOUNTS FOR: 251 SCHOOL	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
630 ADMIN/ATTENDANCE/HEALTH							
<a href="#">25163000 496002 AAH</a>	1,642,000	0	1,642,000	.00	.00	1,642,000.00	.0%
TOTAL ADMIN/ATTENDANCE/HEALTH	1,642,000	0	1,642,000	.00	.00	1,642,000.00	.0%

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ACCOUNTS FOR: 251 SCHOOL	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
640 PUPIL TRANSPORTATION SERV							
<u>25164000 496003 TRANSPORT</u>	2,796,937	0	2,796,937	.00	.00	2,796,937.00	.0%
TOTAL PUPIL TRANSPORTATION SERV	2,796,937	0	2,796,937	.00	.00	2,796,937.00	.0%

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ACCOUNTS FOR:  
251 SCHOOL

ORIGINAL  
APPROP

TRANFRS/  
ADJSTMTS

REVISED  
BUDGET

YTD EXPENDED

ENCUMBRANCES

AVAILABLE  
BUDGET

PCT  
USED

650 OPERATION & MAINT SERV

[25165000 496004 OPER&MAIN](#)

3,807,585

0

3,807,585

.00

.00

3,807,585.00

.0%

TOTAL OPERATION & MAINT SERV

3,807,585

0

3,807,585

.00

.00

3,807,585.00

.0%

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ACCOUNTS FOR: 251 SCHOOL	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
670 TECHNOLOGY							
<a href="#">25167000 496008 TECH</a>	1,708,720	0	1,708,720	.00	.00	1,708,720.00	.0%
TOTAL TECHNOLOGY	1,708,720	0	1,708,720	.00	.00	1,708,720.00	.0%
TOTAL SCHOOL	37,276,685	32,707	37,309,392	.00	.00	37,309,392.19	.0%
TOTAL EXPENSES	37,276,685	32,707	37,309,392	.00	.00	37,309,392.19	

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ACCOUNTS FOR: 252 CAFETERIA	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
<hr/>							
680 CAFETERIA							
<a href="#">25268000 406002 FOODSUPL</a>	1,428,251	49,917	1,478,168	.00	.00	1,478,168.00	.0%
TOTAL CAFETERIA	1,428,251	49,917	1,478,168	.00	.00	1,478,168.00	.0%
TOTAL CAFETERIA	1,428,251	49,917	1,478,168	.00	.00	1,478,168.00	.0%
TOTAL EXPENSES	1,428,251	49,917	1,478,168	.00	.00	1,478,168.00	

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ACCOUNTS FOR:  
401 DEBT SERVICE

ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
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910 DEBT SERVICE - COUNTY

40109910 495000 ADMINFEES	15,000	0	15,000	.00	.00	15,000.00	.0%
40109910 495026 07PLMTKPL	52,291	0	52,291	50,190.48	.00	2,100.52	96.0%
40109910 495027 08KSTKPL	46,901	0	46,901	.00	.00	46,901.00	.0%
40109910 495030 07PLTKINT	2,160	0	2,160	2,101.66	.00	58.34	97.3%
40109910 495031 08KSTKINT	7,925	0	7,925	.00	.00	7,925.00	.0%
40109910 495040 12FTFUPRIN	51,044	0	51,044	51,044.00	.00	.00	100.0%
40109910 495041 12FTFUINT	10,214	0	10,214	10,213.19	.00	.81	100.0%
40109910 495050 14FTPALMPR	40,000	0	40,000	40,000.00	.00	.00	100.0%
40109910 495051 14FTPALMIN	21,769	0	21,769	10,808.01	.00	10,960.99	49.6%
40109910 495052 14CRTHOUSE	115,000	0	115,000	115,000.00	.00	.00	100.0%
40109910 495053 14CRTHSINT	73,222	0	73,222	37,848.00	.00	35,374.00	51.7%
40109910 495054 14LIBPRIN	185,000	0	185,000	185,000.00	.00	.00	100.0%
40109910 495055 14LIBRYINT	63,097	0	63,097	32,944.00	.00	30,153.00	52.2%
40109910 495999 DEBTPLACEH	225,000	0	225,000	.00	.00	225,000.00	.0%
TOTAL DEBT SERVICE - COUNTY	908,623	0	908,623	535,149.34	.00	373,473.66	58.9%

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ACCOUNTS FOR: 401 DEBT SERVICE	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
920 DEBT SERVICE - SCHOOLS							
<a href="#">40109920 495001 MID96PRIN</a>	48,401	0	48,401	48,401.00	.00	.00	100.0%
<a href="#">40109920 495003 VPSA95PRIN</a>	123,720	0	123,720	123,720.00	.00	.00	100.0%
<a href="#">40109920 495004 VPSA99PRIN</a>	50,000	0	50,000	50,000.00	.00	.00	100.0%
<a href="#">40109920 495005 LITL1999</a>	309,852	0	309,852	309,851.13	.00	.87	100.0%
<a href="#">40109920 495006 GO05APRIN</a>	313,890	0	313,890	313,890.00	.00	.00	100.0%
<a href="#">40109920 495012 VPSA96INT</a>	3,849	0	3,849	2,556.57	.00	1,292.43	66.4%
<a href="#">40109920 495013 VPSA95AINT</a>	3,155	0	3,155	3,154.86	.00	.14	100.0%
<a href="#">40109920 495014 VPSA99INT</a>	11,600	0	11,600	6,437.50	.00	5,162.50	55.5%
<a href="#">40109920 495015 LITL1999INT</a>	65,069	0	65,069	65,068.74	.00	.26	100.0%
<a href="#">40109920 495016 GOBND05INT</a>	179,236	0	179,236	93,619.70	.00	85,616.30	52.2%
<a href="#">40109920 495020 VPSA08INT</a>	282,838	0	282,838	.00	.00	282,838.00	.0%
<a href="#">40109920 495036 QSCB2009</a>	271,000	0	271,000	271,000.00	.00	.00	100.0%
<a href="#">40109920 495037 HS08PRIN</a>	1,620,000	0	1,620,000	.00	.00	1,620,000.00	.0%
<a href="#">40109920 495044 VPSA12BPR</a>	640,000	0	640,000	640,000.00	.00	.00	100.0%
<a href="#">40109920 495045 VPSA12BINT</a>	2,350,903	0	2,350,903	1,180,331.25	.00	1,170,571.75	50.2%
<a href="#">40109920 495046 VPSA12APR</a>	220,000	0	220,000	220,000.00	.00	.00	100.0%
<a href="#">40109920 495047 VPSA12AINT</a>	135,980	0	135,980	70,767.50	.00	65,212.50	52.0%
<a href="#">40109920 495048 VPSA14CPRI</a>	170,000	0	170,000	170,000.00	.00	.00	100.0%
<a href="#">40109920 495049 VPSA14CINT</a>	242,533	0	242,533	142,257.74	.00	100,275.26	58.7%
TOTAL DEBT SERVICE - SCHOOLS	7,042,026	0	7,042,026	3,711,055.99	.00	3,330,970.01	52.7%
TOTAL DEBT SERVICE	7,950,649	0	7,950,649	4,246,205.33	.00	3,704,443.67	53.4%
TOTAL EXPENSES	7,950,649	0	7,950,649	4,246,205.33	.00	3,704,443.67	

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COUNTY OF FLUVANNA  
YEAR-TO-DATE BUDGET REPORT

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FOR 2016 03

ACCOUNTS FOR: 502 SEWER	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
000 NON DEPT							
50200000 401100 SAL & WAGE	42,346	503	42,849	9,138.79	.00	33,710.21	21.3%
50200000 401310 OT PAY	2,000	0	2,000	423.39	.00	1,576.61	21.2%
50200000 402100 FICA	3,393	38	3,431	652.92	.00	2,778.08	19.0%
50200000 402210 VRS	5,442	53	5,495	895.04	.00	4,599.96	16.3%
50200000 402300 MEDINS	6,048	0	6,048	1,576.49	.00	4,471.51	26.1%
50200000 402400 GRPLIFE	504	7	511	98.90	.00	412.10	19.4%
50200000 402700 WORKCOMP	1,350	0	1,350	1,405.80	.00	-55.80	104.1%
50200000 403100 PROFSVCS	4,000	0	4,000	.00	.00	4,000.00	.0%
50200000 403170 PERMITFEE	4,000	0	4,000	2,678.00	.00	1,322.00	67.0%
50200000 403300 CONTRSVC	1,700	0	1,700	352.00	.00	1,348.00	20.7%
50200000 403310 REP/MAINT	8,000	0	8,000	502.51	.00	7,497.49	6.3%
50200000 403600 ADVERT	400	0	400	.00	.00	400.00	.0%
50200000 403700 LAUNDRY	600	0	600	102.84	.00	497.16	17.1%
50200000 405110 ELECSVCS	11,000	0	11,000	1,292.92	.00	9,707.08	11.8%
50200000 405210 POSTAL	400	0	400	.00	.00	400.00	.0%
50200000 405230 TELECOMM	1,000	0	1,000	171.61	.00	828.39	17.2%
50200000 405540 CONVEDUC	1,000	0	1,000	.00	.00	1,000.00	.0%
50200000 405810 DUES	300	0	300	.00	.00	300.00	.0%
50200000 406001 OFFSUPL	600	0	600	90.00	.00	510.00	15.0%
50200000 406003 AGRICSUPL	1,000	0	1,000	60.00	.00	940.00	6.0%
50200000 406004 GENLSUPL	2,900	0	2,900	290.53	.00	2,609.47	10.0%
50200000 406006 CHEMSUPL	6,000	0	6,000	1,842.86	.00	4,157.14	30.7%
50200000 406008 VEHFUEL	1,200	0	1,200	.00	.00	1,200.00	.0%
50200000 408110 DEPREFP	50,000	0	50,000	.00	.00	50,000.00	.0%
50200000 409111 REDEMPPR	60,000	0	60,000	.00	.00	60,000.00	.0%
TOTAL NON DEPT	215,183	601	215,784	21,574.60	.00	194,209.40	10.0%
TOTAL SEWER	215,183	601	215,784	21,574.60	.00	194,209.40	10.0%
TOTAL EXPENSES	215,183	601	215,784	21,574.60	.00	194,209.40	

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COUNTY OF FLUVANNA  
YEAR-TO-DATE BUDGET REPORT

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FOR 2016 03

ACCOUNTS FOR: 505	FORK UNION SANITARY DISTRICT	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
000 NON DEPT								
<a href="#">50500000</a>	<a href="#">401100</a>	<a href="#">SAL &amp; WAGE</a>	116,522	1,479	118,001	27,017.99	.00	90,983.01 22.9%
<a href="#">50500000</a>	<a href="#">401310</a>	<a href="#">OT PAY</a>	5,000	0	5,000	3,393.79	.00	1,606.21 67.9%
<a href="#">50500000</a>	<a href="#">402100</a>	<a href="#">FICA</a>	9,297	113	9,410	2,190.81	.00	7,219.19 23.3%
<a href="#">50500000</a>	<a href="#">402210</a>	<a href="#">VRS</a>	14,877	156	15,033	2,627.69	.00	12,405.31 17.5%
<a href="#">50500000</a>	<a href="#">402300</a>	<a href="#">MEDINS</a>	22,675	0	22,675	4,864.39	.00	17,810.61 21.5%
<a href="#">50500000</a>	<a href="#">402400</a>	<a href="#">GRPLIFE</a>	1,386	18	1,404	275.39	.00	1,128.61 19.6%
<a href="#">50500000</a>	<a href="#">402700</a>	<a href="#">WORKCOMP</a>	3,656	0	3,656	4,008.78	.00	-352.78 109.6%
<a href="#">50500000</a>	<a href="#">403100</a>	<a href="#">PROFSVCS</a>	8,500	0	8,500	.00	.00	8,500.00 .0%
<a href="#">50500000</a>	<a href="#">403170</a>	<a href="#">PERMITFEE</a>	7,250	0	7,250	5,578.10	.00	1,671.90 76.9%
<a href="#">50500000</a>	<a href="#">403310</a>	<a href="#">REP/MAINT</a>	12,200	0	12,200	5,969.21	.00	6,230.79 48.9%
<a href="#">50500000</a>	<a href="#">403600</a>	<a href="#">ADVERT</a>	400	0	400	.00	.00	400.00 .0%
<a href="#">50500000</a>	<a href="#">403700</a>	<a href="#">LAUNDRY</a>	2,500	0	2,500	308.52	.00	2,191.48 12.3%
<a href="#">50500000</a>	<a href="#">405110</a>	<a href="#">ELECSVCS</a>	41,000	0	41,000	5,187.02	.00	35,812.98 12.7%
<a href="#">50500000</a>	<a href="#">405210</a>	<a href="#">POSTAL</a>	2,500	0	2,500	662.51	.00	1,837.49 26.5%
<a href="#">50500000</a>	<a href="#">405230</a>	<a href="#">TELECOMM</a>	4,500	0	4,500	1,108.52	.00	3,391.48 24.6%
<a href="#">50500000</a>	<a href="#">405304</a>	<a href="#">PROPINS</a>	200	0	200	100.00	.00	100.00 50.0%
<a href="#">50500000</a>	<a href="#">405305</a>	<a href="#">VEHICLEINS</a>	3,000	0	3,000	2,436.70	.00	563.30 81.2%
<a href="#">50500000</a>	<a href="#">405410</a>	<a href="#">LEASERENT</a>	1,800	0	1,800	450.00	.00	1,350.00 25.0%
<a href="#">50500000</a>	<a href="#">405540</a>	<a href="#">CONVEDUC</a>	1,500	0	1,500	.00	.00	1,500.00 .0%
<a href="#">50500000</a>	<a href="#">405711</a>	<a href="#">SSPOS</a>	4,000	0	4,000	877.00	.00	3,123.00 21.9%
<a href="#">50500000</a>	<a href="#">405810</a>	<a href="#">DUES</a>	700	0	700	.00	.00	700.00 .0%
<a href="#">50500000</a>	<a href="#">406001</a>	<a href="#">OFFSUPL</a>	1,600	0	1,600	692.84	.00	907.16 43.3%
<a href="#">50500000</a>	<a href="#">406003</a>	<a href="#">AGRICSUPL</a>	16,000	0	16,000	4,717.21	.00	11,282.79 29.5%
<a href="#">50500000</a>	<a href="#">406004</a>	<a href="#">GENLSUPL</a>	7,000	0	7,000	2,026.35	.00	4,973.65 28.9%
<a href="#">50500000</a>	<a href="#">406008</a>	<a href="#">VEHFUEL</a>	8,000	0	8,000	1,313.24	.00	6,686.76 16.4%
<a href="#">50500000</a>	<a href="#">406009</a>	<a href="#">VEHSUPL</a>	1,200	0	1,200	210.75	.00	989.25 17.6%
<a href="#">50500000</a>	<a href="#">409111</a>	<a href="#">REHMPR</a>	43,278	0	43,278	.00	.00	43,278.00 .0%
<a href="#">50500000</a>	<a href="#">409115</a>	<a href="#">REDEMINT</a>	34,109	0	34,109	5,929.01	.00	28,179.99 17.4%
TOTAL NON DEPT			374,650	1,766	376,416	81,945.82	.00	294,470.18 21.8%
TOTAL FORK UNION SANITARY DISTRICT			374,650	1,766	376,416	81,945.82	.00	294,470.18 21.8%
TOTAL EXPENSES			374,650	1,766	376,416	81,945.82	.00	294,470.18

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COUNTY OF FLUVANNA  
YEAR-TO-DATE BUDGET REPORT **Through 9/30/15**

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FOR 2016 03

	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
GRAND TOTAL	93,378,762	392,972	93,771,734	8,785,413.26	20,237.84	84,966,083.09	9.4%

\*\* END OF REPORT - Generated by Mary Anna Twisdale \*\*



# **FY16 1st Quarter Budget Report**

**Typically departments should have expended approximately 25% of their budget at the end of the first quarter.**

**Based on timing of payments some budgets may have a slightly higher percentage expended.**

**Example:**

- Correction and Detention at 43%, 2<sup>nd</sup> quarter allocation payment processed at end of September.**



**FLUVANNA COUNTY BOARD OF SUPERVISORS AGENDA ITEM**

**Meeting Date:** November 4, 2015

<b>AGENDA TITLE:</b>	Adoption of the Fluvanna County Board of Supervisors Regular Meeting Minutes.				
<b>MOTION(s):</b>	<b>I move the meeting minutes of the Fluvanna County Board of Supervisors for Wednesday, October 7, 2015 Regular Meeting, be adopted.</b>				
<b>CATEGORY</b>	Public Hearing	Action Matter	Presentation	Consent Agenda	Other
				<b>XX</b>	
<b>STAFF CONTACT(S):</b>	Kelly Belanger Harris, Clerk to the Board				
<b>PRESENTER(S):</b>	Steven M. Nichols, County Administrator				
<b>RECOMMENDATION:</b>	Approve				
<b>TIMING:</b>	Routine				
<b>DISCUSSION:</b>	None				
<b>FISCAL IMPACT:</b>	N/A				
<b>POLICY IMPACT:</b>	N/A				
<b>LEGISLATIVE HISTORY:</b>	None				
<b>ENCLOSURES:</b>	Draft minutes for October 7, 2015				
<b>REVIEWS</b>	Legal	Finance	Purchasing	HR	Other



**FLUVANNA COUNTY BOARD OF SUPERVISORS**  
**REGULAR MEETING MINUTES**  
**Circuit Court Room**  
**October 7, 2015**  
**Regular Meeting 4:00pm**

**MEMBERS PRESENT:**

Mozell Booker, Fork Union District, Chairperson  
 Bob Ullenbruch, Palmyra District, Vice-Chairperson  
 Tony O'Brien, Rivanna District (*arrived at 4:06pm*)  
 Donald W. Weaver, Cunningham District  
 Mike Sheridan, Columbia District (*arrived at 4:02pm*)

**MEMBERS ABSENT:**

None.

**ALSO PRESENT:**

Steven M. Nichols, County Administrator  
 Fred W. Payne, County Attorney  
 Kelly Belanger Harris, Clerk to the Board of Supervisors

**CALL TO ORDER**

At 4:00pm, Chair Booker called the Regular Meeting of October 7, 2015 to order. After the recitation of the Pledge of Allegiance, a moment of silence was observed.

**ADOPTION OF AGENDA****MOTION**

Mr. Weaver moved to accept the Agenda for the October 7, 2015 Regular Meeting of the Board of Supervisors, as modified to move the Presentations ahead of Action Matters. Mr. Ullenbruch seconded and the Agenda was adopted by a vote of 3-0. AYES: Booker, Ullenbruch, and Weaver. NAYS: None. ABSENT: O'Brien, Sheridan.

**COUNTY ADMINISTRATOR'S REPORT**

- Virginia Cooperative Extension Dinner Tonight at 5:30 pm in front of Courthouse
- 2015 Comprehensive Plan available
  - Online (<http://fluvannacounty.org/services/planning-zoning/plans-ordinances/comp-plan>)
  - At the Library, Planning, and County Administration
  - For purchase from Planning (\$50 per copy)
- Great planning work by multiple departments and agencies to prepare for potential severe weather
  - Led by Emergency Services Coordinator, Cheryl Elliott
- County Finance Board and Treasurer Linda Lenherr moved \$5M of County funds into the Virginia Investment Pool in July 2015, Net gain through Sep 2015, \$16,415.09
- Educational Panel at the Butterfly Garden--"Pollinator Friendly Practices" Donated by DGIF (Approximately \$1500 sign)
- Red Rocker Candy
  - Now located at the corner of Better Living Drive and Industrial Way in Troy, Virginia
  - New location offers views of the candy production areas
  - Virginia Department of Agriculture and Consumer Services (VDACS) and Red Rocker Candy have collaborated to plan the official Grand Opening
  - Wednesday, October 14 at 11 a.m.
  - First Lady Dorothy McAuliffe, Congressman Robert Hurt, and Secretary of Agriculture and Forestry Todd Haymore are among the dignitaries speaking at this event.
  - The Fluvanna County Chamber of Commerce will host the Ribbon Cutting
- Brochure mailing with Tax Bills
  - James River Water Project Brochure & Cost Recovery Brochure
- Old Farm Day/Farm Museum
  - A draft concept drawing has been created by Mr. George Abetti from GeoBarns.
  - Fluvanna Historical Society has raised ~\$113,000 to date from all sources, includes a \$30,000 Perry Foundation Grant. Requires a full match. Raised ~\$23,000 to date, full match needed by end of 2015
  - 50% of the net earnings from OFD were to go toward the match; would the County consider raising its commitment from \$10,000 to \$15,000 to help meet the Perry Grant match?
- Next Meetings:
  - Wednesday, November 4, 4:00 pm – Regular Meeting
  - Wednesday, November 18, 5:30 pm - Inter-Agency Council Dinner, 7:00 pm – Regular Meeting
- New Finance Employees
  - Lindsey Britton, Payroll
  - Cyndi Toler, Purchasing Office

**BOARD OF SUPERVISORS' UPDATES**

*Sheridan*— None.

*Weaver*— Fluvanna Employees Annual Picnic

*Ullenbruch*— None.

*O'Brien*—TJPDC, Louisa Arts Gala, CHIP Annual Event.

*Booker*—CMPT, JABA Board Meeting

**PUBLIC COMMENTS #1**

At 4:19pm Chair Booker opened the first round of Public Comments.

With no one wishing to speak, Chair Booker closed the first round of Public Comments.

**PUBLIC HEARINGS**

None.

**PRESENTATIONS**

*Southeast Rural Assistance Project*—Randy Phillips, Rural Housing, offered the Board an overview of the mission and services of the Southeast Rural Assistance Project.

*Fluvanna Health Status Update*—Dr. Denise Bonds, Health Director, Thomas Jefferson Health District, brought to the Board a status update for Fluvanna County. Dr. Bonds highlighted the District's priority issues, Fluvanna County Health Ranking, and Risk Profile.

**ACTION MATTERS**

*Deer Hunt for Handicapped Hunters at Pleasant Grove* – Fred Payne, County Attorney, once again asked the Board to consider the deer hunt at Pleasant Grove for handicapped hunters, managed by Wheelin' Sportsmen.

**MOTION**

Mr. Ullenbruch moved that the Board of Supervisors authorize the sheriff to conduct a deer hunt at Pleasant Grove for the purpose of controlling deer numbers, such hunt to be managed by Wheelin' Sportsmen, a non-profit organization providing outdoor recreation opportunities for handicapped hunters. Mr. Sheridan seconded and the vote was approved 5-0. AYE: Booker, Ullenbruch, O'Brien, Sheridan, Weaver. NAY: None. ABSENT: None.

*Reclassification of Information Technology Position*—Gail Parrish, Human Resources Manager, petitioned the Board with a request reclassify the Information Technology (IT) Technologist position bringing the job title in line with the skill set necessary for the position. The request was to reclassify the position as an IT Systems Engineer.

**MOTION**

Mr. Weaver moved to reclassify the IT Technologist position, Classification 1121, Pay Band 12, to an Information Technology Systems Engineer position, Classification 1122, Pay Band 15. Mr. Sheridan seconded and the motion passed 5-0. AYE: Booker, Ullenbruch, O'Brien, Sheridan, Weaver. NAY: None. ABSENT: None.

*FY16 County Pay Plan*—Gail Parrish, Human Resources Manager, presented a request to modify the current County Pay Plan and Pay Band Salary Schedule. The modifications change the pay band for Constitutional Officers (to Pay Band 26,) Library Clerk (to pay band 7) & Sheriff's Office Patrol/Bailiff (to pay band 13) and the Assistant County Administrator (to pay band 24.)

**MOTION**

Mr. Ullenbruch moved to approve the Fluvanna County FY16 Pay Plan, including the FY16 Pay Band Salary Schedule and the FY16 Schematic List of Classes. Mr. O'Brien seconded and the motion passed 5-0. AYE: Booker, Ullenbruch, O'Brien, Sheridan, Weaver. NAY: None. ABSENT: None.

*Proposed Additional Compensation for Degrees, Licensures and Certification Policy*—Gail Parrish, Human Resources Manager, presented a request to bolster Fluvanna County employee retention by offering financial recognition of completion of degree programs, certificates, and licensures.

After lengthy discussion,

**MOTION**

Mr. Ullenbruch moved to defer the motion until FY17. Mr. Weaver seconded. The motion failed on a vote of 2-3. AYE: Ullenbruch, Weaver. NAY: Booker, O'Brien, Sheridan. ABSENT: None.

**MOTION**

Mr. Sheridan moved to approve the Policy I.5, Additional Compensation for Degrees, Licensures and Certifications, effective July 1, 2015, applying \$16,000 from FY16 Personnel Contingency for FY16 program support, contingent upon Board directed modifications to be ratified at a later date. Mr. O'Brien seconded and the motion passed 3-2. AYE: Booker, O'Brien, Sheridan. NAY: Ullenbruch, Weaver. ABSENT: None.

**RECESS FOR DINNER****MOTION**

Mr. Weaver moved to recess at 5:45pm for one hour in order to attend the dinner hosted by the Extension Leadership Council. Mr. Sheridan seconded and the motion passed on a vote of 5-0. AYE: Booker, Ullenbruch, O'Brien, Sheridan, & Weaver. NAY: None. ABSENT: None.

**RECONVENE**

At 6:45pm Chair Booker reconvened the meeting with Mr. Payne noting that Mr. Sheridan and Mr. Ullenbruch had not returned to the Courtroom at the time of reconvening.

*Withdrawn--Confirmation of Local Emergency*—Cheryl Elliott, Emergency Services Coordinator--

**CONSENT AGENDA**

The following were approved under the Consent Agenda:

- Minutes of September 2, 2015 Meeting*—Kelly Belanger Harris, Clerk to the Board
- Minutes of September 16, 2015 Meeting*—Kelly Belanger Harris, Clerk to the Board
- Domestic Violence Awareness Month*—Steven M. Nichols, County Administrator

**MOTION**

Mr. Weaver moved to approve the items on the Consent Agenda for October 7, 2015 Mr. O'Brien seconded and the motion passed 3-0. AYES: Booker, O'Brien, and Weaver. NAYS: None. ABSENT: Ullenbruch, Sheridan.

**UNFINISHED BUSINESS**

None.

**NEW BUSINESS**

None.

**PUBLIC COMMENTS #2**

Chair Booker opened the second section of Public Comments.

With no one wishing to speak, Chair Booker closed the second round of public comments.

Mr. Ullenbruch rejoined the meeting at 6:49pm.

**CLOSED SESSION**

**MOTION TO ENTER INTO A CLOSED MEETING**

At 6:50pm, Mr. Weaver moved the Fluvanna County Board of Supervisors enter into a closed meeting, pursuant to the provisions of Section 2.2-3711 A.1, A.3, A.6, & A.7 of the Code of Virginia, 1950, as amended, for the purpose of discussing Personnel, Real Estate, Investment of Funds, and Legal Matters. Mr. O'Brien seconded and the motion carried, with a vote of 4-0. AYES: Booker, Ullenbruch, O'Brien, and Weaver. NAYS: None. ABSENT: Sheridan.

**MOTION TO EXIT A CLOSED MEETING & RECONVENE IN OPEN SESSION**

At 9:28, Mr. Weaver moved that the Closed Meeting be adjourned and the Fluvanna County Board of Supervisors convene again in open session and "BE IT RESOLVED, the Board of Supervisors does hereby certify to the best of each member's knowledge (i) only public business matters lawfully exempted from open meeting requirements under Section 2.2-3711-A of the Code of Virginia, 1950, as amended, and (ii) only such public business matters as were identified in the motion by which the closed meeting was convened were heard, discussed, or considered in the meeting." Mr. Ullenbruch seconded. The motion carried, with a roll call vote of 4-0. AYES: Booker, Ullenbruch, O'Brien, and Weaver. NAYS: None. ABSENT: Sheridan.

**Motion**

Mr. Weaver moved to extend the meeting until 11:00pm. Mr. Ullenbruch seconded and the motion passed 4-0. AYES: Booker, Ullenbruch, O'Brien, and Weaver. NAYS: None. ABSENT: Sheridan.

**ADJOURN**

**MOTION:**

At 9:30pm Mr. O'Brien moved to adjourn the meeting of Wednesday, October 7, 2015. Mr. Ullenbruch seconded and the motion carried with a vote of 4-0. AYES: Booker, Ullenbruch, O'Brien, & Weaver. NAYS: None. ABSENT: Sheridan.

ATTEST:

FLUVANNA COUNTY BOARD OF SUPERVISORS

\_\_\_\_\_  
Kelly Belanger Harris  
Clerk to the Board

\_\_\_\_\_  
Mozell H. Booker  
Chairperson



**FLUVANNA COUNTY BOARD OF SUPERVISORS AGENDA ITEM**

**Meeting Date:** November 4, 2015

<b>AGENDA TITLE:</b>	Adoption of the Fluvanna County Board of Supervisors Regular Meeting Minutes.				
<b>MOTION(s):</b>	<b>I move the meeting minutes of the Fluvanna County Board of Supervisors for Wednesday, October 21, 2015 Regular Meeting, be adopted.</b>				
<b>CATEGORY</b>	Public Hearing	Action Matter	Presentation	Consent Agenda	Other
				<b>XX</b>	
<b>STAFF CONTACT(S):</b>	Kelly Belanger Harris, Clerk to the Board				
<b>PRESENTER(S):</b>	Steven M. Nichols, County Administrator				
<b>RECOMMENDATION:</b>	Approve				
<b>TIMING:</b>	Routine				
<b>DISCUSSION:</b>	None				
<b>FISCAL IMPACT:</b>	N/A				
<b>POLICY IMPACT:</b>	N/A				
<b>LEGISLATIVE HISTORY:</b>	None				
<b>ENCLOSURES:</b>	Draft minutes for October 21, 2015				
<b>REVIEWS</b>	Legal	Finance	Purchasing	HR	Other



**FLUVANNA COUNTY BOARD OF SUPERVISORS  
REGULAR MEETING MINUTES  
Circuit Court Room  
October 21, 2015  
Regular Meeting 7:00pm**

**MEMBERS PRESENT:** Mozell Booker, Fork Union District, Chairperson  
Bob Ullenbruch, Palmyra District, Vice-Chairperson  
Tony O'Brien, Rivanna District  
Mike Sheridan, Columbia District  
Donald W. Weaver, Cunningham District

**MEMBERS ABSENT:** None.

**ALSO PRESENT:** Steven M. Nichols, County Administrator  
Fred W. Payne, County Attorney  
Kelly Belanger Harris, Clerk to the Board of Supervisors

**CALL TO ORDER**

At 7:01pm, Chair Booker called the Regular Meeting of October 21, 2015 to order. After the recitation of the Pledge of Allegiance, a moment of silence was observed.

After the Call to Order, Chair Booker welcomed the participants of the 2015-2016 Fluvanna Leadership Development Program.

**CLOSED SESSION**

**MOTION TO ENTER INTO A CLOSED MEETING**

At 7:03pm, Mr. Weaver moved the Fluvanna County Board of Supervisors enter into a closed meeting, pursuant to the provisions of Section 2.2-3711 A.1, A.3, A.6, & A.7 of the Code of Virginia, 1950, as amended, for the purpose of discussing Personnel, Real Estate, Investment of Funds, and Legal Matters. Mr. O'Brien seconded and the motion carried, with a vote of 5-0. AYES: Booker, Ullenbruch, O'Brien, Sheridan, and Weaver. NAYS: None. ABSENT: None.

**MOTION TO EXIT A CLOSED MEETING & RECONVENE IN OPEN SESSION**

At 7:42, Mr. Weaver moved that the Closed Meeting be adjourned and the Fluvanna County Board of Supervisors convene again in open session and "BE IT RESOLVED, the Board of Supervisors does hereby certify to the best of each member's knowledge (i) only public business matters lawfully exempted from open meeting requirements under Section 2.2-3711-A of the Code of Virginia, 1950, as amended, and (ii) only such public business matters as were identified in the motion by which the closed meeting was convened were heard, discussed, or considered in the meeting." Mr. O'Brien seconded. The motion carried, with a roll call vote of 5-0. AYES: Booker, Ullenbruch, O'Brien, Sheridan, and Weaver. NAYS: None. ABSENT: None.

**ADOPTION OF AGENDA**

Mr. Nichols recommended to the Board that the Public Hearings for SUPs 15:06 and 15:08 be deferred until a Special Meeting on Wednesday, December 2, 2015, at 7:00 pm.

**MOTION**

Mr. Weaver moved to defer SUP 15-06: Louisa County Water Authority (LCWA) and SUP 15-08: James River Water Authority (JRWA) until Dec 2, 2015, at 7:00 pm. Mr. Ullenbruch seconded and the motion passed 5-0. AYES: Booker, Ullenbruch, O'Brien, Sheridan, and Weaver. NAYS: None. ABSENT: None.

**MOTION**

Mr. Weaver moved to accept the Agenda for the October 21, 2015 Regular Meeting of the Board of Supervisors, as modified to defer SUP 15-06: Louisa County Water Authority and 15-8: James River Water Authority until a Special Meeting on December 2, 2015 at 7pm. Mr. Ullenbruch seconded and the Agenda was adopted by a vote of 5-0. AYES: Booker, Ullenbruch, O'Brien, Sheridan, and Weaver. NAYS: None. ABSENT: None.

**COUNTY ADMINISTRATOR'S REPORT**

Mr. Nichols reported on the following:

- Spotlight on Business
  - Congratulations to Canine Concierge & Equine, Bybee Farms Lane in Palmyra; Opened for business last fall and has been serving our community for one year.
- New Staff Members
  - Facilities Maintenance Specialist
    - Mr. Johnny Vaughan—Started work on Oct 19th
  - IT Support Specialist (Temp)
    - Mr. Christopher Maxwell—Started work on Oct 19th
- Financial Services Technician

- Ms. Star Puaauli—Starts work on Nov 2nd
- Planner
  - Mr. James Newman—Starts work on Oct 26th
- Public Works Staff Changes
  - Robert Bryant—moved from the Grounds Division to the new Facilities Maintenance Division
  - Steve Hester—Appointed as Interim Team Leader for Grounds Division
- Comparative Report of Taxes and Revenues
  - Updated with FY14 data
  - Compares Fluvanna data to: 9 Surrounding Counties, 14 Similar Size Counties (20-35K Population), and adds select Per Capita comparisons
- Upcoming Meetings
  - Wednesday, November 4, 4:00 pm – Regular Meeting, 7:00 pm – Work Session (if needed)
  - Wednesday, November 18, 7:00 pm – Regular Meeting

#### **BOARD OF SUPERVISORS' UPDATES**

*Sheridan*—None.

*Weaver*—Groundbreaking of Scheier Natural Area Education Pavilion in the Cunningham District.

*Ullenbruch*—Jail Board.

*O'Brien*—spoke at FLDP Economic Development Session.

*Booker*—CHIP.

#### **PUBLIC COMMENTS #1**

At 7:58pm Chair Booker opened the first round of Public Comments.

- John Gooch, 362 Oliver Creek Rd, addressed the Board with regards to the two SUPs that were deferred earlier in the evening and in support of the James River Water Project.
- John Carrier, 23 Overlook Circle, spoke in support of the JRWA/LCWA water projects.
- Rhett Townsend, 541 Goldsboro Lane, spoke in opposition to the proposed JRWA/LCWA water projects.

At 8:09pm, with no one else wishing to speak, Chair Booker closed the first round of Public Comments.

#### **PUBLIC HEARINGS**

*ZMP 15-02: Steven L. Peters*—Steve Tugwell, Senior Planner, presented a request to amend the Fluvanna County Zoning Map with respect to 21.5 acres of Tax Map 8, Section A, Parcel A14A to rezone the same from Agricultural, General, to B-1, Business, General (conditional). The affected property is located on the northwest corner of the intersection of Thomas Jefferson Parkway (Route 53), and Lake Monticello Road. The property is located in the Palmyra Election District and is within the Rivanna Community Planning Area.

Chair Booker opened the Public Hearing.

With no one wishing to speak, Chair Booker closed the Public Hearing.

With little discussion,

##### **MOTION**

Mr. O'Brien moved that the Board of Supervisors approve ZMP 15:02 of the attached ordinance for ZMP 15:02, a request to amend the Fluvanna County Zoning Map with respect to approximately 21.5 acres of Tax Map 8, Section A, Parcel A14A, to rezone the same from A-1, Agricultural, General, to B-1, Business, General (conditional). Mr. Weaver seconded and the motion passed 5-0. AYES: Booker, Ullenbruch, O'Brien, Sheridan, & Weaver. NAYS: None. ABSENT: None.

*SUP 15-06: Louisa County Water Authority* – Jason Stewart, Planning and Zoning Administrator & Steve Tugwell, Senior Planner—DEFERRED UNTIL SPECIAL MEETING ON DECEMBER 2, 2015 at 7pm

*SUP 15-08: James River Water Authority* – Jason Stewart, Planning and Zoning Administrator & Steve Tugwell, Senior Planner— DEFERRED UNTIL SPECIAL MEETING ON DECEMBER 2, 2015 at 7pm

#### **PRESENTATIONS**

None.

#### **ACTION MATTERS**

*FY15 Loan to the Fork Union Sanitary District (FUSD)*—Eric Dahl, Finance Director, presented a request to fund the Fork Union Sanitation District (FUSD) in an effort to bring FUSD into self-sufficiency.

Supervisors discussed options for increasing revenue and supporting self-sufficiency and asked Staff to return with recommendations for paying back the loans already extended to FUSD.

##### **MOTION**

Mr. Ullenbruch moved that the Board of Supervisors approve a loan from the Fluvanna County General Fund to Fork Union Sanitary District for \$9,000, effective 6/30/2015. Mr. Sheridan seconded and the motion passed 5-0. AYES: Booker, Ullenbruch, O'Brien, Sheridan, and Weaver. NAYS: None. ABSENT: None.

*Advertisement of the Proposed Fluvanna County Code Updates*—Steven M. Nichols, County Administrator, presented a request to advertise a Public Hearing on November 18, 2015, to consider a number if necessary changes to the County Code. The proposed amendments are split into three categories:

1. **Clerical Updates** - updating citations to the Virginia Code, fixing grammatical errors, adding references to Virginia Code, where appropriate. These changes are not substantive and require intensive review - they're just necessary housekeeping.

2. **Mandatory Substantive Updates** - which includes mandatory changes where, for example, enabling legislation has changed and the Fluvanna Code must be amended to be consistent with the Virginia Code or federal law. Again, this is necessary housekeeping.

3. **Discretionary Substantive Updates** - which include amendments which the County has the option to adopt and exercise additional authority, assert new limitations, or update its fees.

**MOTION**

Mr. Ullenbruch moved the Board of Supervisors authorize staff to advertise a Public Hearing on November 18, 2015, entitled, "AN ORDINANCE TO AMEND AND REENACT CHAPTER 1; CHAPTER 2, ARTICLES 1, 4, 5, AND 6; CHAPTER 3.1; CHAPTER 4, ARTICLES 1 AND 2; CHAPTER 6, ARTICLES 1 AND 2; CHAPTER 7, ARTICLES 1, 2, AND 3; CHAPTER 8; CHAPTER 9, ARTICLES 1 AND 2; CHAPTER 10, ARTICLES 1 AND 2; CHAPTER 13, ARTICLES 1 AND 2; CHAPTER 14; CHAPTER 15.1; CHAPTER 16; CHAPTER 17; CHAPTER 18; CHAPTER 20, ARTICLES 1, 2, 3, 3.1, 4, 5, 6, 8.1, AND 9; CHAPTER 21, ARTICLES 1, 2, 3, AND 4 OF THE FLUVANNA COUNTY CODE BY CERTAIN AMENDMENTS TO SECTIONS AND SUBSECTIONS 1-1, 1-2, 1-3, 1-4, 1-6, 1-9, 1-9.1, 1-10, 1-12, 2-1-2, 2-1-3, 2-1-4, 2-4-2, 2-5-1, 2-5-2, 2-5-3, 2-6-1, 3.1-1, 3.1-2, 3.1-5, 3.1-6, 3.1-7, 3.1-9, 3.1-10, 3.1-13, 4-1-2, 4-2-1, 4-2-2, 4-2-3, 4-2-4, 6-1-1.1, 6-1-2, 6-1-3, 6-1-6, 6-1-7, 6-1-8, 6-1-11, 6-2-4, 6-2-5, 6-2-7, 7-1-1, 7-1-3.1, 7-1-5, 7-2, 7-3-3.1, 8-1, 8-3, 8-5, 9-1-2, 9-2-6, 10-1-3.2, 10-1-4, 10-2-2, 13-1-1, 13-1-2, 13-1-2.1, 13-1-2.2, 13-1-2.4, 13-1-3, 13-1-4, 13-1-5, 13-1-5.1, 13-1-7, 14-3, 14-4, 15.1-6, 16.2, 17-2, 18-2, 20-1-3, 20-1-6, 20-2-2, 20-3-1, 20-3-2, 20-3-3, 20-3-3.1, 20-3-4, 20-3-4.1, 20-3-6, 20-3.1-1, 20-4-2, 20-4-3, 20-4-4, 20-4-6, 20-4-7, 20-4-8, 20-4-9, 20-5-1, 20-5-2, 20-5-6, 20-5-6.1, 20-5-6.2, 20-5-9, 20-5-10, 20-8.1-1, 20-8.1-2, 20-8.1-3, 20-8.1-4, 20-8.1-5, 20-9, 20-9-1, 20-9-4, 20-9-9, 21-1-5, 21-1-6, 21-2-1, 21-2-2, 21-2-6, 21-3-1, 21-3-2, 21-3-3, 21-3-3.1, 21-3-5, 21-4-1, 21-4-9, 21-4-22, AND 21-4-28. THEREOF, AMENDING AND REENACTING THE FLUVANNA COUNTY CODE TO CONFORM TO THE CURRENT ENABLING LEGISLATION, AS AMENDED." Mr. Sheridan seconded and the motion passed 5-0. AYES: Booker, Ullenbruch, O'Brien, Sheridan, and Weaver. NAYS: None. ABSENT: None.

*Appointment to the Fluvanna County Partnership for Aging Committee—At-Large—Steven M. Nichols, County Administrator*

**MOTION**

Mr. Weaver moved to appoint Linda Bernick to the Fluvanna Partnership for Aging Committee, At Large Position, with a term to begin immediately and to terminate December 31, 2019. Mr. Ullenbruch seconded and the motion passed 5-0. AYES: Booker, Ullenbruch, O'Brien, Sheridan, and Weaver. NAYS: None. ABSENT: None.

*Appointment to the Fluvanna County Partnership for Aging Committee—Fork Union—Steven M. Nichols, County Administrator*

**MOTION**

Mr. Weaver moved to appoint Joan Talley the Fluvanna Partnership for Aging Committee, Fork Union District Position, replacing Dorothy Payne, who resigned, with a term to begin immediately and to terminate December 31, 2016. Mr. Sheridan seconded and the motion passed 5-0. AYES: Booker, Ullenbruch, O'Brien, Sheridan, and Weaver. NAYS: None. ABSENT: None.

**CONSENT AGENDA**

The following items were discussed before approval:

*M - AP Report, September 2015—Eric Dahl, Finance Director*

*N - Invitation for Bid – Fluvanna County Community Center Roof Replacement—Cyndi Toler, Purchasing Officer*

*O - RFP - Benefits Consulting and 3rd Party Administrative Services—Cyndi Toler, Purchasing Officer*

The following were approved under the Consent Agenda:

*K - DEQ Stormwater Program "Opt Out" Support Resolution – Bobby Popowicz, Community Development Director*

*L - FY16 Schools VSUP Budget Supplemental Appropriation—Ed Breslauer, FCPS Director of Finance*

*M - AP Report, September 2015—Eric Dahl, Finance Director*

*Mc - FY15-FY16 Carryover Request—Mary Anna Twisdale, Management Analyst*

*N - Invitation For Bid – Fluvanna County Community Center Roof Replacement—Cyndi Toler, Purchasing Officer*

*O - RFP - Benefits Consulting and 3rd Party Administrative Services—Cyndi Toler, Purchasing Officer*

*P - Capital Reserve Maintenance Fund Request: Evacuation Chairs—Chuck Winkler, Deputy Administrator, FCPS*

**MOTION**

Mr. Weaver moved to approve the items on the Consent Agenda for October 21, 2015 and ratify the Account Payable and Payroll in the amount of \$3,573,116.91. Mr. Ullenbruch seconded and the motion passed 5-0. AYES: Booker, Ullenbruch, O'Brien, Sheridan, and Weaver. NAYS: None. ABSENT: None.

**UNFINISHED BUSINESS**

None.

**NEW BUSINESS**

None.

**PUBLIC COMMENTS #2**

At 8:54pm Chair Booker opened the second section of Public Comments.

With no one wishing to speak, Chair Booker closed the second round of public comments at 8:54pm.

**CLOSED SESSION****MOTION TO ENTER INTO A CLOSED MEETING**

At 8:54pm, Mr. Weaver moved the Fluvanna County Board of Supervisors enter into a closed meeting, pursuant to the provisions of Section 2.2-3711 A.1, A.3, A.6, & A.7 of the Code of Virginia, 1950, as amended, for the purpose of discussing Personnel, Real Estate, Investment of Funds, and Legal Matters. Mr. O'Brien seconded and the motion carried, with a vote of 5-0. AYES: Booker, Ullenbruch, O'Brien, Sheridan, and Weaver. NAYS: None. ABSENT: None.

**MOTION TO EXIT A CLOSED MEETING & RECONVENE IN OPEN SESSION**

At 11:33pm, Mr. Weaver moved that the Closed Meeting be adjourned and the Fluvanna County Board of Supervisors convene again in open session and "BE IT RESOLVED, the Board of Supervisors does hereby certify to the best of each member's knowledge (i) only public business matters lawfully exempted from open meeting requirements under Section 2.2-3711-A of the Code of Virginia, 1950, as amended, and (ii) only such public business matters as were identified in the motion by which the closed meeting was convened were heard, discussed, or considered in the meeting." Mr. Sheridan seconded and the motion carried, with a roll call vote of 5-0. AYES: Booker, Ullenbruch, O'Brien, Sheridan, and Weaver. NAYS: None. ABSENT: None.

**MOTION TO EXTEND**

At 11:34pm Mr. O'Brien moved to extend the meeting until 12:00am. Mr. Weaver seconded and the motion passed 5-0. AYES: Booker, Ullenbruch, O'Brien, Sheridan, and Weaver. NAYS: None. ABSENT: None.

**ADJOURN****MOTION:**

At 11:34pm Mr. O'Brien moved to adjourn the meeting of Wednesday, October 21, 2015. Mr. Sheridan seconded and the motion carried with a vote of 5-0. AYES: Booker, Ullenbruch, O'Brien, Sheridan, & Weaver. NAYS: None. ABSENT: None.

ATTEST:

FLUVANNA COUNTY BOARD OF SUPERVISORS

\_\_\_\_\_  
Kelly Belanger Harris  
Clerk to the Board

\_\_\_\_\_  
Mozell H. Booker  
Chairperson

**FLUVANNA COUNTY BOARD OF SUPERVISORS AGENDA ITEM**

**Meeting Date:** November 4, 2015

<b>AGENDA TITLE:</b>	Litter Grant Award.				
<b>MOTION(s):</b>	<b>I move to accept the \$8,664.00 DEQ has awarded Fluvanna County to be used for Litter prevention and Recycling programs implemented in FY 16.</b>				
<b>AGENDA CATEGORY:</b>	Public Hearing	Action Matter	Presentation	Consent Agenda	Other
				X	
<b>STAFF CONTACT(S):</b>	Jason Smith/Parks and Recreation Director				
<b>PRESENTER(S):</b>	Jason Smith				
<b>RECOMMENDATION:</b>	Approve				
<b>TIMING:</b>	The grant was applied for in June and is effective July 1, 2016 to June 30, 2016.				
<b>DISCUSSION:</b>	<p>Fluvanna County has received an award of \$8,664.00 for use towards litter control and prevention programs in FY16. Supplies will be purchased for county events to promote litter awareness using educational materials and free handouts for families to take home to practice. One of the highlights this fiscal year will be implementing a county wide Adopt-A-Spot program managed by the Parks and Recreation Department. This grant will fund signage and materials to go along with our slogan; "Keep Fluvanna Beautiful."</p>				
<b>FISCAL IMPACT:</b>	N/A				
<b>POLICY IMPACT:</b>	N/A				
<b>LEGISLATIVE HISTORY:</b>	N/A				
<b>ENCLOSURES:</b>	DEQ Award Letter				
<b>REVIEWS COMPLETED:</b>	Legal	Finance	Purchasing	HR	Other





## VDOT Activity Status Report

Updated: September 15, 2015

Status	Date Requested	Action Item	Requested By	Follow-Up Date	Comments
Pending	24-Mar-14	Cunningham Meadows Subdivison Roadway	Citizen	Staff/VDOT	Met with VDOT: Awaiting List of Issues: <b>Punch list inspection performed on March 21, 2014. List of deficiencies provided to County and Developer.</b>
Pending	1-Mar-14	Request for VDOT to take control of Andergar Lane, Kent Farms North	Sheridan		<b>Punch list was provided to Ms. Jones. Sight distance issues were identified that needed to be corrected along with other issues prior to being considered for possible state</b>
Pending	29-Jul-13	High Mountain Acres Lane off Route 650 - Citizen requesting VDOT take over road	Citizen		<b>County to determine if it qualifies for the Rural Addition program.</b>
Pending	15-May-13	Requested speed study to be done between the Town of Columbia and the Rivanna Bridge on Route 6.	Kenney	May 2 - Staff	<b>Study will be performed after completion of bridge project. Because of temporary speed</b>
Complete	12-May-14	Speed Study for Rt 659 (Kents Store Way) near Beulah Baptist Church	Sheridan		<b>Study completed, did not recommend a change in the current speed limit but did</b>
Complete	9-May-14	Logging Trucks on Venable Road	Sheridan	VDOT/ Community Dev	<b>Program to be initiated by the County. Copy of Program attached. County Staff recommends that no action be taken, because the parameters of the program can not be met.</b>
Complete	18-Apr-14	Light pole down at Hwy 53/Rt 600 Traffic Circle	Citizen		<b>VDOT reports that their traffic section has been out there and are working on a fix: Waiting on contractor to schedule the work. In contact with NWRO.</b>
Complete	16-Apr-14	Trees leaning precariously over the roadway on Route 799, Beverdam Road, in northwest Fluvanna	Citizen		<b>VDOT plans to take care of the problem: Reviewed by Superintendent, did not see any trees that needed immediate attention or that were a threat to the roadway at this time.</b>
Complete	14-Apr-14	Rt 656, Breomo Road, in southeastern Fluvanna -- There are two 25 mph signs, one in each direction heading into Breomo Bluff on 656, which seems appropriate. However, there are no other speed limit signs from Breomo Bluff all the way northeast to Route 6. Not sure if they are required.	Booker	May 14 - Staff	<b>VDOT Checking : Installed an "End 25 Mile" sign to indicate where the statutory 55 mph speed limit starts. No additional signing required.</b>
Complete	14-Apr-14	Speed Limit and 25 mph signs Rt. 656	COAD	VDOT	<b>Speed limit signs relocated to near Rt. 15 per the study. Relocated 10/29/14.</b>





# COUNTY OF FLUVANNA

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P.O. Box 540  
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www.fluvannacounty.org

## MEMORANDUM

**Date:** November 4, 2015  
**From:** Mary Anna Twisdale/ Management Analyst  
**To:** Board of Supervisors  
**Subject:** FY16 Capital Reserve Balances

The FY16 Capital Reserve account balances are as follows:

### County Capital Reserve:

FY15 Carryover	\$15,970.00
<b>FY16 Beginning Budget:</b>	<b>\$100,000.00</b>
Less: HVAC Repairs at Various County Buildings 9.2.15	-\$42,900.00
Less: FSPCA Repairs 9.2.15	-73,700.00
Plus: Transfer from Unassigned Fund Balance 9.2.15	\$50,000.00
<b>Available:</b>	<b>\$49,370.00</b>

### Schools Capital Reserve:

FY15 Carryover	\$203,733.00
<b>FY16 Beginning Budget:</b>	<b>\$125,000.00</b>
Less: Evacuation Chairs and Installation 10.21.15	-\$7,600.00
<b>Available:</b>	<b>\$321,133.00</b>





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## MEMORANDUM

**Date:** November 4, 2015  
**From:** Mary Anna Twisdale/ Management Analyst  
**To:** Board of Supervisors  
**Subject:** FY16 BOS Contingency Balance

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The FY16 BOS Contingency line balance is as follows:

<b>Beginning Budget:</b>	<b>\$150,000.00</b>
Less: Rivanna River Renaissance Conference Funding Support 9.2.15	-\$500.00
Less: State Vet Fee for FSPCA 9.16.15	-\$250.00
*Less: Fire Ladder Truck Replacement 9.16.15	-\$50,000
<b>Available:</b>	<b>\$99,250.00</b>

\*Actual amount to be determined, not to exceed \$50,000.

