

# ALBEMARLE COUNTY SERVICE AUTHORITY

## AGENDA ITEM EXECUTIVE SUMMARY

<b>AGENDA TITLE:</b> RWSA Monthly Updates	<b>AGENDA DATE:</b> January 19, 2012
<b>STAFF CONTACT(S)/PREPARER:</b> Gary O'Connell, Executive Director	<b>CONSENT AGENDA: INFORMATION:</b> ■
	<b>ATTACHMENTS:</b> YES

**BACKGROUND:** Updates from the RWSA Board meeting on December 28, 2011.

**DISCUSSION:** Major items:

1. Award construction contract for new Ragged Mountain Dam;
2. Introduction to 2012-16 Capital Improvements Program (CIP);
3. Approval of Rivanna Pump Station – Option E (tunnel option).

**BOARD ACTION REQUESTED:** Information.

**ATTACHMENTS:** Board meeting items and summary memorandum.

# MEMORANDUM

**To:** Board of Directors  
**From:** Gary B. O'Connell, Executive Director  
**Date:** January 12, 2012  
**Re:** RWSA Updates  
**cc:** James M. Bowling, IV

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Please see below for summary comments on RWSA Board meeting items:

- Ragged Mountain Dam Construction Contract Awarded – RWSA Board approved the construction contract to Thalle Construction for a low bid of \$21,528,750.50, right on the current budget estimate.

The Notice to Proceed is for early March, contingent on final water agreement approvals (City, ACSA, RWSA), VDOT/FHWA formal approval for the I-64 embankment improvements, and finalize two property issues (see attached).

- Dam Engineering Contract – Approved with Schnabel Engineering, with condition on the design for the additional 12' for the dam to full build subject to approval of the cost allocation agreements in mid-January (see attached).
- Rivanna Pump Station – Option E (tunnel option) approved on a 4-3 vote (3 County representatives voted against this option citing the \$13 million additional cost). Subject to a cost sharing agreement by June 30, 2012 was part of the approval motion.
- Fluoride Community Presentations – Dr. Syrop from the Virginia Department of Public Health will be meeting with the City Council and the Board of Supervisors to discuss the health implications of Fluoride in our public drinking water. The ACSA Board will be invited to the presentation.

- Canterbury/Stillhouse Pump Station Replacement – Ready to be bid, construction in early spring to start to replace the existing ACSA Canterbury Pump Station, which is located adjacent to Barracks Road and serves the Stillhouse Mountain Tank service areas (Hessian Hills, Montvue, West Leigh, Meriwether Hills, Colthurst, Albemarle High School, Flordon, etc.). New pump station to be located on the Woodburn Road site.
- Moore’s Creek Wastewater Treatment Plant (WWTP) – Seventy-five percent complete on the construction work; some parts of the plant in operation. This major part of this \$50 million project was required by the Virginia Department of Environmental Quality (DEQ) to upgrade the Moore’s Creek WWTP to meet new nutrient removal regulations (as the Rivanna discharge point is on a tributary that flows to the Chesapeake Bay, part of the Virginia Department of Environmental Quality and Federal Environmental Protection Agency clean up requirement to improve the stream/bay water quality). The project also includes about 15% of the project cost towards increasing the peak (wet weather) flow treatment capability from 37.5 mgd to 45 mgd, and to increase the holding pond capacity from 15 mg to 16.2 mg.
- Meadow Creek Sanitary Sewer Interceptor Upgrade – Much of the work on this \$12 million project to replace and upgrade the current Meadow Creek sewer line is complete. This has been a difficult project, hitting a lot of rock. Work is ongoing in the Rio Road area and tie-ins to Schenk’s Branch.
- Sanitary Sewer Line Rehabilitation – Additional work began on rehabilitation/repairs on the Crozet Interceptor sewer lines, and manhole rehabilitation; as well as manhole rehabilitation on the Albemarle-Berkeley Interceptor sewer line, and CCTV investigation of the Powell Creek Interceptor, and portions of the Moore’s Creek Interceptor.
- Moore’s Creek Pump Station – Nearing completion of this sewer pump station upgrade.
- Dredging – Draft RFP and “proposal evaluation plan”, including the legal guidelines, has been developed to be considered at the January 24<sup>th</sup> RWSA Board meeting.
- RWSA Capital Improvement Program (CIP) – The \$201 million capital program introduced. A discussion item is on the regular Agenda with the project details, and the wholesale rate impact, this will drive a double digit sewer rate increase for us.



*RMD*

# RIVANNA WATER & SEWER AUTHORITY

695 MOORES CREEK LANE • CHARLOTTESVILLE, VIRGINIA 22902-9016  
(434) 977-2970 • FAX: (434) 293-8858 • WEBSITE: WWW.RIVANNA.ORG

## MEMORANDUM

**TO:** RIVANNA WATER & SEWER AUTHORITY  
BOARD OF DIRECTORS

**FROM:** JENNIFER A. WHITAKER, CHIEF ENGINEER *JW*

**REVIEWED BY:** THOMAS L. FREDERICK, EXECUTIVE DIRECTOR *TF*

**SUBJECT:** NEW RAGGED MOUNTAIN DAM – RECOMMENDATION OF  
AWARD FOR CONSTRUCTION CONTRACT

**DATE:** DECEMBER 28, 2011 *Carps*

Bids for the New Ragged Mountain Dam project were opened on December 8, 2011. Nine bids were received from contractors who had been pre-qualified for the project. Based on the bid opening results, the apparent low bidder for the project was Thalle Construction Company, with a bid of \$ 21,528,750.50.

Schnabel Engineering has reviewed the bid documents submitted by the apparent low bidder, and has verified that the documents are acceptable, and the bid is responsive. Schnabel Engineering recommends awarding the construction project to Thalle Construction Company, and to pursue executing a contract, including submission of required bonds and insurances for review and approval.

The anticipated Notice to Proceed date for the project is approximately March 1, 2012. The bid documents include a clause that bids can be held for 90 days after the bid opening. There are various items which should be resolved prior to awarding the contract. These items include:

- Approval of the Cost Sharing Agreement by the City of Charlottesville, Albemarle County Service Authority, and Rivanna Water & Sewer Authority.
- Approval of the Land Use Agreement by the City of Charlottesville and the Rivanna Water & Sewer Authority.
- Obtaining VDOT and FHWA approval for project work associated with the I-64 Embankment Improvements.
- Finalize easement and property acquisitions on two adjacent properties.

### Board Action Requested:

RWSA staff recommends that the Board of Directors authorize the Executive Director to award the New Ragged Mountain Dam construction contract to Thalle Construction Company for the total amount not to exceed \$21,528,750.50. Staff also requests that the Executive Director be authorized to execute necessary amendments or change orders to the existing contract in additional amounts not to exceed 10% of the initial construction contract. The award should be contingent upon resolution of the four outstanding items as shown above in this Board Report.





f/ Ron Dan

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**REVIEWED BY:** THOMAS L. FREDERICK, EXECUTIVE DIRECTOR *TF*

**SUBJECT:** NEW RAGGED MOUNTAIN DAM – ENGINEERING SERVICES  
FOR CONSTRUCTION ADMINISTRATION, MANAGEMENT  
AND INSPECTION

**DATE:** DECEMBER 28, 2011

The New Ragged Mountain Dam project will require engineering services during construction to ensure that the dam is built to the design standards as set forth in the Contract Documents, to document the construction process, and to make decisions regarding adjustments to design criteria as necessary due to exposure to varying field conditions. It is essential that the construction engineering services be performed by personnel experienced in the construction of large earthen dams, and the ancillary support structures that are included in this project.

Staff recommends that Schnabel Engineering perform the construction engineering services for the project including construction management, observation, quality control testing, and contract management. In addition to these services, Schnabel Engineering will also perform post-bidding and contract preparation services including contract and attachments preparation, integration of addenda into a complete set of drawings and specifications issued for construction, and attending meetings as necessary between bidding and construction start-up.

Schnabel Engineering has vast experience in the construction of large earthen dams. Their knowledge of the project, obtained by previously performing the geotechnical, preliminary design and final design services on the project, will be extremely beneficial during the construction phase. Schnabel's familiarity with the site conditions, project history, permitting, and local stakeholders will also be beneficial in achieving a successful construction project.

The negotiation of this scope and fees was completed before the announcement was made on December 14 regarding the Cost Share Agreement. Accordingly, this scope does not include the modification of construction documents to build the dam to support an increase in pool height to 42 feet. That change, if approved as part of the Cost Share Agreement, will require further engineering services to modify construction documents and negotiate an appropriate change order, but should not affect the construction phase services recommended in this memorandum. A recommendation regarding those services will be provided to the Board as a separate item.

### Board Action Requested:

RWSA staff recommends that the Board of Directors authorize the Executive Director to execute a work authorization with Schnabel Engineering, Inc. to perform work associated with the

construction engineering services and post bidding/contract preparation services for the New Ragged Mountain Dam project in the total amount not to exceed \$3,021,772. Staff also requests that the Executive Director be authorized to execute necessary amendments to the existing contract in additional amounts not to exceed 5% of the initial work authorization. It is noted that the costs listed above are estimated for a 21 month construction schedule beginning March 1, 2012.