

AGENDA

SPARTANBURG SANITARY SEWER DISTRICT COMMISSION

WORK SESSION

MEETING PLACE: 200 Commerce Street

Tuesday, April 25, 2017, 12:30 p.m.

This is a work session of the Spartanburg Sanitary Sewer District Commission. Written notice of the date, time, and place for this meeting, along with the agenda, has been posted in the lobby and on the Spartanburg Water website, and copies have been forwarded to local and nearby news media (including Spartanburg Herald-Journal, The Spartan Weekly, Greenville News, The Greer Citizen, Hometown News, WSPA-TV 7, WYFF-TV 4, WLOS-TV 13, WHNS Fox Carolina, WORD News Radio, WOLT-FM Radio, Tribune Times, and the Times Examiner) at least 24 hours prior to this meeting.

This work session will be held to discuss preliminary information in connection with the FY2017-2018 budget.

AGENDA

SPARTANBURG SANITARY SEWER DISTRICT COMMISSION

REGULAR MEETING

MEETING PLACE: 200 Commerce Street

Tuesday, April 25, 2017, 2:15 p.m.

This is a regular meeting of the Spartanburg Sanitary Sewer District Commission. Written notice of the date, time, and place for this meeting, along with the agenda, has been posted in the lobby and on the Spartanburg Water website, and copies have been forwarded to local and nearby news media (including Spartanburg Herald-Journal, The Spartan Weekly, Greenville News, The Greer Citizen, Hometown News, WSPA-TV 7, WYFF-TV 4, WLOS-TV 13, WHNS Fox Carolina, WORD News Radio, WOLT-FM Radio, Tribune Times, and the Times Examiner) at least 24 hours prior to this meeting.

- 1. PRAYER**
- 2. APPROVAL OF MINUTES OF REGULAR MEETING OF MARCH 28, 2017**
- 3. PUBLIC COMMENT**
- 4. MONTHLY FINANCIAL REPORT**

Newt Pressley will present a financial summary of SSSD expenditures and revenues for the nine-month period ending March 31, 2017.

- 5. FAIRFOREST RECLAIMED WATER TREATMENT FACILITY LANDSCAPING PROJECT**

Proposals to select a contractor that can provide landscaping services for the entrance into the Fairforest Reclaimed Water Treatment Facility were received on April 17, 2017. The project would improve drainage issues from rainfall overflow off Southport Road, remove dead trees, make signage more visible, and improve the overall appearance of the entrance to the facility. Drainage patterns have resulted in difficulty with maintaining the entrance appearance due to exposed tree roots, lack of topsoil, and canopy shading in unwanted locations. Further, dead trees are a safety concern.

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The scope of work calls for the clearing and grubbing of the current landscaping including tree removal; the relocation and revitalization of the entrance signage; the refurbishment of existing irrigation system, and the installation of sod and a variety of plants, trees, and shrubs. The scope also calls for grading, installation of berms, and creating a dry creek bed to help with drainage.

Request for Proposals were forwarded to prospective bidders and advertised in the local media. The solicitation drew two responses. A tabulation of the responses is listed below.

<u>BIDDER</u>	<u>AMOUNT OF BID</u>
Roebuck Wholesale Nursery and Landscaping Roebuck, SC	\$115,387
The Anderson Group Spartanburg, SC	\$129,365
Martin and Son Contracting Spartanburg, SC	NO BID
Parris Lawn Roebuck, SC	NO BID

The proposals were evaluated using a weighted scoring matrix. The matrix rated the suppliers' (1) qualification and references, (2) project schedule, (3) MWBE certification, (4) Community Benefit Program, and (5) cost.

Based on the scoring, management recommends an award to the highest scoring proposal submitted by Roebuck Wholesale Nursery and Landscaping at a cost of \$115,387.

Funding will be provided through the SSSD operating budget.

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6. LAWSON FORK 42" FORCE MAIN PIGGING PROJECT

Proposals were received on April 17, 2017, to select a contractor for line cleaning (pigging) of approximately 26,000 LF of 42" force main sewer pipe. Wastewater is transported along the force main from the Lawson Fork Pump Station to the Fairforest Reclaimed Water Treatment Facility. Grease accumulation in the gravity lines discharging into the Lawson Fork Pump Station has been an ongoing issue, and grease accumulation has also caused difficulty operating and maintaining air release valves along the 42" force main. Further, over time, intermittent pumping at a low flow velocity has led to solids deposition and line constriction resulting in pump efficiency issues.

The pig launch station at Lawson Fork and the pig retrieval station at Fairforest were constructed in 2015 for the purpose of cleaning the 42" pipe. This current scope of work calls for the removal of 100% of loose debris and 95% of hardened debris from the force main sewer pipe.

Request for Proposals were forwarded to prospective bidders and advertised in the local media. The solicitation drew three responses. A tabulation of the responses is listed below.

<u>BIDDER</u>	<u>AMOUNT OF BID</u>
Professional Piping Services, Inc. Wesley Chapel, FL	\$510,371
Bio-Nomic Services, Inc. Charlotte, NC	\$607,500
Flowmore Service Houston, TX	NO BID

The proposals were evaluated using a weighted scoring matrix. The matrix rated the suppliers' (1) approach and strategy, (2) technical competency and prior experience, (3) schedule, (4) MWBE utilization, (5) Community Benefit Program, and (6) cost.

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Based on the scoring, management recommends an award to the highest scoring proposal submitted by Bio-Nomic Services Inc., at a cost of \$607,500.

Funding will be provided through the SSSD collection system rehabilitation budget.

7. LAWSON FORK ODOR EMISSION ASSESSMENT– ENGINEERING PROFESSIONAL SERVICES AGREEMENT

SSSD is experiencing intermittent odor issues at the Lawson Fork Pump Station and surrounding collection lines entering the pump station. SSSD has previously invested heavily in odor control technology with great success, but the current odor issues, although sporadic in intensity and duration, have caused ongoing complaints from neighboring customers. Although cleaning efforts have and will result in reduction, long-term abatement will require an optimization strategy.

Staff has engaged CDM Smith, Inc., to provide a proposal for addressing odorous air emissions at the Lawson Fork Pump Station and parallel collection lines entering the facility. The Scope of work includes:

Lawson Fork Creek Pump Station Odor Emission Study

- A. Assess the production of sulfide in the Lawson Fork Force Main and identify recommend means of sulfide control, to prevent corrosion and reduce odor impacts at the Lawson Fork Pump Station.
- B. Compare current odor impacts to baseline odor dispersion model created previously by Engineer in 2013 for the Lawson Fork Pump Station.

Collection System Odor Emission Study

- A. Quantify sulfide generation in each of the significant sub-drainage areas tributary to Lawson Fork Pump Station; identify areas of critical concern where odor or corrosion of pipes and manholes require mitigation.

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- B. Develop mitigation measures and recommendations for sulfide generation, odor, and corrosion in any critical areas identified upstream of Lawson Fork Pump Station.

Hydraulic Modeling of Lawson Fork Pump Station Force Main

Development of a hydraulic model of the force main from the Lawson Fork Creek Pump Station to the Fairforest Reclaimed Water Treatment Facility in order to better understand where the pipeline is not flowing full, entry and exhaust of air, and likely locations of sediment build-up. Identify any operational and maintenance or structural solutions that would cost-effectively reduce the risk of corrosion and odor emissions.

An engineer will conduct hydraulic modeling to determine the hydraulic grade line showing those segments of pipe flowing partially full. The model will indicate changes in hydraulic grade line under various conditions and the volume of air discharged during pumping cycles. The modeling will provide the following value:

- Identify segments most likely to have corroding conditions
- Determine how much air is being vented by the air release valves (ARVs) in case it needs to be treated, and if the ARVs are properly sized
- Evaluate possible improvements such as adjustments in pump operations, additional air release points, or installation of pressure maintaining valves in the force main.

Management recommends the approval of a professional services agreement with CDM Smith, Inc., for conducting the Lawson Fork Odor Emission Assessment for a cost not to exceed \$68,100. These professional services will be funded through the SSSD operating budget.

8. RECEIPT OF BIDS – SWEETBRIAR PUMP STATION REHABILITATION PROJECT

Bids were received on April 11, 2017, for the Sweetbriar Pump Station Rehabilitation Project. This pump station, serves the Sweetbriar Subdivision, Willow Lakes Apartments, and a commercial area along Reidville Road, was initially placed in service in 1982. The existing pumps and related hardware have exceeded their useful life. This project will include the replacement of

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the wet well, submersible pumps, related hardware and piping, and the installation of several safety-related improvements, which will bring the station into compliance with current Sewer District standards.

Five contractors obtained the bid documents for the project and four contractors submitted a bid. The bids were as follows:

<u>BIDDER</u>	<u>AMOUNT OF BID</u>
J.L. Construction, Inc. Greenville, SC	\$242,370
Greenstone Construction, LLC Seneca, SC	\$264,800
C.J. Compton Plumbing and Heating Spartanburg, SC	\$319,715
The Harper Corporation Greenville, SC	\$346,000
J.S. Haren Company Athens, TN	No Bid

Management recommends awarding the contract to the lowest responsive bidder, J.L. Construction, Inc., of Greenville, SC for the amount of \$242,370. This project will be funded by the depreciation fund.

9. SOUTH PINE STREET SEWER RELOCATION PROJECT SUMMARY CHANGE ORDER

The South Pine Street Sewer Relocation Project is complete. This project included the relocation of approximately 260 linear feet of a former City of Spartanburg 8-inch gravity sewer line that was in danger of being undermined by the continued erosion of an adjacent creek bank. This project relocated a portion of the existing vitrified clay pipe (VCP) in a new location a safe distance from the creek bank.

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The Summary Change Order to the contract with L-J, Inc., reflects a net decrease for adjustment to the unit quantities based on the actual work done. This change order was executed as per current District policy.

A financial summary is listed below:

<i>Original Contract Price</i>	\$76,426.00
<i>Change Order No. 1 (SUMMARY)</i>	-\$9,625.00
<i>Revised Contract Price</i>	\$66,801.00

The above is provided as information to the Commission.

10. OWNERSHIP AGREEMENT – WILSON FARMS SUBDIVISION

Mark III Properties, Inc., proposes to construct approximately 6,686 linear feet of 8-inch gravity sewer line to provide service to Wilson Farms Subdivision consisting of 155 residential lots, located on E. Victor Hill Road. The sewer line will connect to the District's existing infrastructure. The domestic waste will be treated at the South Tyger River Reclaimed Water Treatment Facility. SSSD will participate in the off-site sewer construction costs in accordance with the Sewer Extension Policy adopted December 17, 1996.

The line will be constructed according to District-approved plans and specifications, with District inspection provided. The owner will provide all necessary right-of-way and easement agreements for this project.

The form of the agreement transferring ownership of the gravity sewer to the District has been reviewed by the District's attorney and executed by Mark III Properties, Inc. Under the terms of the resolution adopted by the Commission on May 29, 1990, this agreement has been executed on behalf of the Commission by the Chief Executive Officer.

The above is provided as information to the Commission.

11. OWNERSHIP AGREEMENT – ANDERSON MILL ROAD BAPTIST CHURCH

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Anderson Mill Road Baptist Church proposes to construct approximately 2,014 linear feet of 8-inch gravity sewer line to provide service to the Anderson Mill Road Baptist Church complex located on Anderson Mill Road, Moore, SC. The sewer line will connect to the District's existing infrastructure. The domestic waste will be treated at the Lower North Tyger River Reclaimed Water Treatment Facility. The developer will bear all costs.

The line will be constructed according to District-approved plans and specifications, with District inspection provided. The owner will provide all necessary right-of-way and easement agreements for this project.

The form of the agreement transferring ownership of the gravity sewer to the District has been reviewed by the District's attorney and executed by Anderson Mill Road Baptist Church. Under the terms of the resolution adopted by the Commission on May 29, 1990, this agreement has been executed on behalf of the Commission by the Chief Executive Officer.

The above is provided as information to the Commission.

12. OWNERSHIP AGREEMENT – NTB TIRE AND SERVICE CENTER

NTB-Abernathy, LLC, proposes to construct approximately 253 linear feet of 8-inch gravity sewer line to provide service to the new NTB Tire and Service Center located at 8271 Warren H. Abernathy Hwy, Spartanburg, SC. The sewer line will connect to the District's existing infrastructure. The domestic waste will be treated at the Lower North Tyger River Reclaimed Water Treatment Facility. The developer will bear all costs.

The line will be constructed according to District-approved plans and specifications, with District inspection provided. The owner will provide all necessary right-of-way and easement agreements for this project.

The form of the agreement transferring ownership of the gravity sewer to the District has been reviewed by the District's attorney and executed by NTB-Abernathy, LLC. Under the terms of the resolution adopted by the Commission on May 29, 1990, this agreement has been executed on behalf of the Commission by the Chief Executive Officer.

The above is provided as information to the Commission.

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13. NEGOTIATIONS AND MISCELLANEOUS ADMINISTRATIVE MATTERS