WINFIELD SANITARY BOARD
SPECIAL MEETING

MINUTES

May 16, 2017
7:00 p.m.

On Tuesday, May 16, 2017 at 7:00 p.m. the special meeting of the Winfield Sanitary Board was called to order by Chairman Randy L. Barrett, at Winfield City Hall, 12248 Winfield Road, Winfield, West Virginia.

ATTENDANCE

Those attending: Chairman Randy Barrett, Clarence Litton, and Rod Burns, members.

Others present: Bill Harper, Plant Manager, Gloria Chapman, Secretary, City Attorney Tim LaFon and Ashok Sanghavi and Jesse Parker of S & S Engineers, Inc.

PUBLIC

City Councilmen Joe Rumbaugh, Frank Bannister, Kevin Karnes and Steve Hanna; Recorder Jackie Hunter; and Building Commission member Robert Harvey. Also, several other members of the community were present.

MINUTES

Since the minutes of April 18, 2017 meeting were omitted from the Board members packets, they will be included next month for approval.

FINANCIAL

Bills paid – F1 for April 2017. Hearing no objection, the bills paid for the month of April in the amount of $ 51,152.01 were approved.

Financial Statements – F-2 for April 2017. The financial statement for April 2017 was approved without objection.

Adjustments F-3 for April 2017. The adjustments for April 2017 in the amount of $ 2.54 were approved without objection.

REPORTS

Chairman – comments/reports.
Mayor Barrett had nothing to report.

Staff Report. Plant Manager Bill Harper reported that the ammonia reading for April was 17.4 mg/L, which is well below the required limit.

NEW BUSINESS

Chapman Technical - Engineering Review and Value Engineering Report.
Jesse Parker of S & S Engineers presented to the Board their Preliminary Assessment/Value Engineering Report on Chapman Technical's plans and specs for the new wastewater plant. Mr. Parker stated that there were a lot of discrepancies between the specs and the drawings, and he also stated that the plans were only 80 - 85% complete. The following is a summary of the nine points outlined on the Preliminary Assessment/Value Engineering Report.

1. Lagoon Abandonment – Lagoon dimensions and depth of sludge are not mentioned on the Plans for a contractor to be able to estimate quantities or costs. The aerated lagoon is 10 feet deep and the settling lagoon is 5 feet deep; however the plans show the aerated lagoon at 5 feet deep and the settling at 10 feet deep. This results in inaccurate calculations for quantities of wastewater and increased costs. Sludge is to be removed, however, no quantity is given. Equipment from the lagoons is to be removed and disposed of. S & S believes that the eight aerators have salvage value and could possibly be sold to another municipality for a profit of $ 20,000 - $ 40,000. The existing pump station is to be modified, but no details are given.

2. Hydraulic flows - On Drawing G5 – Process Flow Profile, the total maximum flow to the wastewater treatment plant is shown as 1,565 gpm. However, when adding individual pump station flows on the same drawing, the total flow equals 1,330 gpm. In the Facilities Plan, it shows 1,374 gpm. The pipe does not equate to the flow, therefore, the plant might to be oversized. Accurate flows need to be determined and shown on the Plans, as this may have an impact on the design of subsequent facilities such as the size of the headworks, SBR, UV, etc.

3. Headworks - The headworks and disinfection UV unit are designed to be in a building along with operator's offices and laboratory, electrical, shower and toilets. No HVAC or electrical or lighting details are in plans. Odors may be a problem in the office/lab portion of the building due to housing in the same building. The headworks need to be moved to the SBR facilities with a gravity grit channel for grit removal which could take advantage of common concrete wall construction. This will minimize building costs, excess piping and other related costs for office/lab building, see SBR discussion for further details.

Chapman Technical – Engineering Review and Value Engineering Report (Cont'd.).

4. Pump Stations - It is proposed to upgrade the existing pump stations at the Lagoons, High School and Winfield Way. Although High School and Winfield Way pump stations are included in the specification, the existing pump station at the lagoons is not included in the Form of Proposal and no details of upgrading is provided. We further note that the cost estimates by CTG indicate the replacement of the High School and Winfield Way pump stations. However, Contract Documents show these pump stations being upgraded by replacing pumps and piping. The existing lagoon pump station details should be provided and not downsized, otherwise, it may result in sewage back-up.

5. SBR / Sludge Digestor / EQ Tanks – The ground elevation is approximately 581.00± at the SBR and the concrete bottom elevation is proposed at 560.00. However, no thickness of concrete foundation or base gravel and sub-base stone are given. Assuming these thicknesses total 3 to 4 feet, the excavation depth level would be approximately 556.00±. In the borehole logs provided on Drawing 1B2, the groundwater was observed at depths of 16 to 24 feet, i.e. at an elevation ranging from 565.00 to 557.00. Thus, dewatering would be necessary during construction. Part of the SBR and other structures will be in continuous contact with the groundwater. This may require special strength concrete and epoxy coated reinforcing bars. No structural details were provided for thickness of walls, reinforcement and other details. S & S recommends that the sub-base construction of the SBR be raised 3 – 5 feet above the ground water table. In addition, the headworks can be built along the top walls of the SBR to further reduce costs of building, piping, valves, etc. Also, office/lab and control building can be built on top to give operator more flexibility and ease in operation. Area under the office/lab building can be used for storage for equipment. A UV channel can be built adjacent to the SBR structure and either install a headwall with rock rip rap to the Kanawha River water level or utilize the existing outfall to eliminate cascade outfall/staircase to further reduce costs.

6. Sludge Storage Shelter - A sludge storage shelter is planned in this project. However, with a belt filter press, the sludge can be processed and taken directly to a farm for land application to further reduce costs.

7. Blowers - There are seven blowers in the plans for this project. We believe that four blowers would be sufficient. We also recommend that the blowers be housed in a building, such as under the office/lab building to take advantage of the common wall construction, which will further reduce costs.

8. Groundwater Metering Well – Drawing 1B1 shows a groundwater metering well, but no details are provided in the Plans or Specs.

Chapman Technical – Engineering Review and Value Engineering (Cont'd).

9. Electrical, Lighting, HVAC – No electrical, lighting or HVAC details were provided.

After Mr. Parker completed his presentation, he answered various questions from the Board. Attorney Tim LaFon had four specific questions as follows:

Question 1: Can you draft plans that will eliminate multiple change orders that inflate costs? Answer: Yes.

Question 2: Will they be in compliance with WV DEP requirements? Answer: Yes.

Question 3: Is your cost estimate one that we can rely on not to change? Answer: Yes.

Question 4: Are you stating that you can build an SBR plant for $ 1.4 million less than Chapman Technical? Answer: Yes.

After discussion, motion was made by Clarence Litton to terminate Chapman Technical as our Engineer for our wastewater plant. Motion carried.

Good of the Order.
Nothing to report.

Adjournment.
Motion was made by Rod Burns at 8:49 p.m. to adjourn.

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Randy L. Barrett, Chairman Gloria Chapman, Secretary