

**CORBETT WATER DISTRICT  
SPECIAL BOARD MEETING**

Vice Chairman Ken Blanc called the meeting to order at 6:40 p.m. Board members, Steve Wilson and Jeff Grover were present. Also present was Superintendent Randy Stark.

Community member Gordon Fulks was in attendance. Duane Lee from Lee Engineering was also present.

**RESERVOIR**

Lee Engineering submitted earlier an engineering agreement for the reservoir project. Mr. Lee said there are some problems with how the District treats water using the slow sand filter method. A storm event could cause some problems with the operations and also compromise the water treat-ability. For example, the filters can get plugged up. A reservoir would be the best solution to meet the high volume use in the summer months and or fire fighting and other emergency conditions.

Lee Engineering has approximately thirty employees and serves many systems throughout the Northwest. Primarily they serve water and sewer systems, roads, highways and reservoirs. They have designed all types and sizes of reservoirs over the years. Mr. Lee said it is not a good idea to bury a steel tank, but a concrete tank could be buried. It is critical to have an engineer to oversee a design build tank. The engineer represents the owner and also protects the owner's interest. Concrete tanks are a proprietary product. If a pre-stressed wire wrapped tank is specified then there is only one company locally that does this, which is DYK.

A pre-stressed wire wrapped tank has an advantage in that it puts all of the concrete in compression before it is loaded and than when you load it your not putting the concrete in tension but relieving the compression. Hence the cracking and leakage of these tanks are normally much less then with a design build tank. A good pre-stressed tank has a life of at least one hundred years.

Mr. Lee asked the Board what they want in the way of engineering services so he can address the question on how much will it cost. Randy Stark in an earlier conversation with Duane Lee said he would allow competitive bidding under a design build scenario utilizing AWWA D-110 & D-115 specifications. Mr. Lee discussed the differences between the two tanks.

Steve Wilson gave his perspective on building a new tank. It has been known for many years that a tank was needed, but a decision was never made on where the tank should be or what size. Finally based on a recommendation from the Engineering firm of Murray, Smith & Associates the Board decided on a 3.0 mg DYK type of tank at a cost upwards of three million dollars. The District tried to pass a bond measure to fund the 3.0 mg tank and was unsuccessful. The engineer did not have a real good perspective on what the District could afford and the ratepayers were not very receptive. Mr. Wilson said he originally suggested a design build tank because he had seen it work on other projects and his observation was time was passing by and thought the project could get done in a more economically fashion in that the District can afford.

The Board came up with a \$10.00 monthly charge per customer, which would support a \$1.5 million debt. Mr. Wilson said he prefers not to spend the whole \$1.5 million on the reservoir and would rather have some money left over for distribution improvements. To keep the project moving along a technical

committee was formed to talk about what the District's objectives were. The technical committee discussed other needed improvements at the treatment plant in addition to just the reservoir. With the designing & constructing of treatment facility improvements, the thought was the project was complicated too much so for a design build tank. The idea expanded to encompass the treatment plant improvements with a design build on the reservoir itself, and do a conventional design bid construct on the balance. Part of the reason for this was to keep options open and allow resources to do other improvements.

The draft of the design bid "request for proposals" included some bid options on the tank. The options included a 0.5 and 1.0 mg tank and also for materials of construction. The idea was to wait for the bids to come in, look them over and make a decision on what option to select. The committee wants to keep the options open and bid the job in early 2003. There are some financing issues that need to be resolved yet.

Duane Lee talked about capitol improvement projects and the costs involved. Mr. Lee estimates the cost of the reservoir project at approximately one million dollars, which includes the cost for the engineering at 3 to 7% of the cost. The engineering includes site work, foundation, design, hydraulics, slope work, landscaping if needed, fencing, piping in and out, and controls interfacing with the treatment plant. Some discussion followed.

Mr. Lee would like to submit a preliminary engineering fee estimate for deciding type and size of tank and the volume of excavating. The cost for the preliminary engineering fee estimate report is likely to cost 1 to 2% of the project. After the Board has made a decision, Mr. Lee suggests putting it out to bid in October. Mr. Wilson said another missing piece is that the Board doesn't know the extent of improvements that need to be made to the treatment plant. Mr. Lee said he has someone meeting with Randy Stark tomorrow morning to look over the treatment plant and will determine what improvements need to be made. Mr. Lee will put his recommendation of what size, type and location of tank he suggests including treatment plant improvements in a letter report to the Board. Lee Engineering will put together a scope of work & cost estimate for the Board's approval at the June 11, 2002 Board meeting.

Community member Gordon Fulks expressed some of his concerns & observations regarding the treatment plant operations. Mr. Lee said all these concerns would be addressed in his letter that will be submitted to the Board in June. There was some discussion that followed.

Steve Wilson motioned to adjourn the meeting. Board members voting for the motion were Ken Blanc, Jeff Grover and Steve Wilson. Motion passed unanimously. Meeting adjourned at 8:10 p.m.