

Vespasian Warner Public Library District
Clinton, IL 61727
Board of Trustees Meeting
July 16, 2024

President Laura Hale called the meeting of the board to order at 6:02 p.m. Roll call was taken with the following members present: Hale, Janelle Sams-Thomas, Matt Love (at 6:18), Becky Adams, Stephanie Coonce, and Clay Held. Absent: Camille Redman. Also present: Executive Director Bobbi Perryman, Maintenance Supervisor Lucas Snow, ENTEC Representatives Tyler Bailliez, Cody Cole, and Dan Hawk.

HVAC Plan Update

The ENTEC representatives provided an update on the planning and design of the proposed library HVAC improvements.

Their design is approximately 92% complete.

The two condensing units to be put outside in the parking lot will occupy fewer spaces than those presently there, going from 6-8 spots to only 2-3, approximately one-fourth of the current size.

A purpose-built air-handling unit will be installed in the boiler room, with an estimated lifetime of 20 years. At that time, parts will need to be changed out, without installing a completely new unit. The newest refrigerant will be used in the air handler units, to be put in the springtime next year. Ductwork will be all internal and inside, all covered within walls as opposed to exposed industrial-looking spiral ducts. A new wall will be built near Perryman's office and in the old building on either side of the entry. All mechanicals will be above the ceiling or downstairs. The chiller goes away, and the drained piping will stay in the walls. The new system will be much quieter.

New high-efficiency condensing boilers will be installed. Instead of one larger boiler, four smaller boilers will be used for redundancy, resulting in a smaller footprint. If one becomes unusable, the remaining three will handle the building's needs. These will reduce the boiler energy costs and make a big difference.

Offices and other small areas will have a VAV (variable air volume) box, each with its own thermostat. These have been tested for over 40 years and are considered tried and true. These can outlast everything else and are best for dehumidifying. There will be computerized control of zones. With this fully automated system, the controller can see what is happening in all VAVs.

Fin tube radiation (which looks like electric baseboard heaters) will be installed near windows to provide heating to offset cold spots.

In the ceiling of the lower level will be installed a heat pump, feeding heat up into the main entryway. A very quiet heat pump with a floor register will be installed in Melissa Snow's office on the second floor. It will include pencil registers (designed to keep out pencils). Near the activity room, a wall/column will be built out to contain the ductwork for returns and for air exchange. A bump-out will be built in the museum room for ducts at the corner of the right side near the entry-way and another will be put in the activity room area. The design avoids using the attic in the old building.

Currently, 110 units need air filters changed and drains changed. Instead, filters in two air handlers will need changed.

The contractors will use visqueen to section off areas being built out to keep the library open and minimize the construction's impact. They will coordinate this with Perryman and Lucas Snow as they go.

Additional Lighting Proposal

ENTEC proposes changing all the library's fixtures (all 712 of them) from fluorescent to LED. The proposed cost is \$126,838. The yearly energy savings is estimated to be \$25,455, as well as saving \$5,530 in maintenance costs, for a total yearly savings of \$30,985. There would be no more ballasts to change. ENTEC estimates the new lighting would pay for itself in 4.09 years or less. The project can be done in stages. In addition, an Ameren incentive program is available to save an additional \$1,000.

The KWH energy reduction would be 195,727 yearly, plus the change reduces the heat generated by the bulbs.

On another matter, ENTEC noticed that the external lighting on the back (east) of the library needed down lighting. The current lighting shines into the neighbors' windows, including the library director's home.

Board Action—Sams-Thomas moved the board approve the preliminary design and move on to the next phase of design work. The motion was approved by voice vote.

Announcements—None

Adjournment—On a motion by Love, the meeting was adjourned at 7:12 p.m. Motion passed by voice vote.

The next meeting is Wednesday, August 28, 2024, at 6 p.m.

Respectfully submitted,
Becky Adams