

2007 BOND CONSTRUCTION END-OF-YEAR-REPORT

After all the meetings and planning in 2006, bond construction finally started in 2007. In addition to several small projects, the long-awaited addition to Roseville High School is well under way. Most projects went well while a few provided some challenges. Below is a detailed list of construction and technology upgrades in 2007 along with scheduled activities for 2008.

CONSTRUCTION

DORT AND FOUNTAIN ROOFS

Both of these schools received a complete roof replacement. The old built up tar roofs were totally removed. New insulation was installed and covered with a Thermoplastic Polyolefin Roofing Membrane also known as "TPO." After several meetings and seminars, a committee comprised of District maintenance administrators, the architect, construction manager, roofing representatives and testing engineers, along with my office, decided selecting the "TPO" product would be in the best interest of the District. This 60-mil product has a 20-year warranty but can last over 25 years with a well-planned preventative inspection and maintenance program.

Construction went well and all areas of the punch list have been completed and these two projects closed.

Both schools also received an extensive abatement of water stained ceiling tiles that were saturated from the old roof system leaks. Dort received a new drainage system throughout the front of the building while Fountain received grading changes to help correct their surface water drainage.

Dort and Fountain are now on the drawing board for extensive remodeling and renovation scheduled to begin in the Fall of 2009.

ALUMNI & KAISER

Both of these schools will follow Dort and Fountain and are also on the drawing board for extensive remodeling and renovation scheduled to start in the Summer of 2010. Some mechanical work may take place in 2009 at these schools.

HURON PARK

The parking lot replacement and bus loop are complete with the punch list finished and the project closed. This project had a great contractor and was completed with very few problems. The Bond Coordinator spent the first week of school directing traffic for student drop off and the new bus loop. This new system appears to be working well and Dan Schultz was a great help in educating the parents to adapt to the new system.

GUEST COMMUNITY CENTER

The parking lot replacement and bus loop are complete with the punch list finished and the project closed. This project had a good contractor but we incurred several problems with ground conditions that resulted in a major cost overrun. About 40% of the base had to be excavated, removed and replaced with a new stone/slag base. Drainage was also a problem but with the cooperation of the Grandmont senior complex to the west, we were able secure drainage into the storm sewer in their property easement. The City of Roseville Engineering Department was very helpful in working with the District on this problem. Considering all the headaches, we wound up with a pretty good job.

ADMINISTRATION BUILDING

The parking lot at this site was repaved and expanded. This project incurred many problems that will require some major decisions by the Administration and the Board of Education. To put it in simple terms, it does not drain well and is experiencing some hairline cracks. The architect's civil engineer is gathering information from the testing company that inspected the installation as well as an opinion as to the cause of the problem. In the meantime, we have retained a considerable amount of the contractor's money, which will not be released until the problem is solved. Stay tuned on this one.

ROSEVILLE JR. HIGH SECURITY ENTRANCE

This was to be the pilot program for a security check-in for visitors wishing to enter our schools. This was the slowest construction project I have ever experienced. This relatively simple project had a masonry contractor, a glass contractor, a carpenter contractor and an electrical contractor.

We are in the process of closing out this project and still have some electrical issues. We have met with the architect and Barton Malow and have a plan in place to have this system operating shortly after the first of the year.

EASTLAND JR. HIGH BUS LOOP/TRAFFIC PATTERNS

After many meetings and studies of the traffic problem and the bus loop at this school, we provided three-concept drawings to the Administration to review and provide direction. One

concept has been accepted and we plan to be out to bid in the Spring of 2008. Because the traffic pattern concepts are on a county easement, the option selected will require county and city approval. More information will be available on this project in February 2008.

ROSEVILLE HIGH SCHOOL

This twenty two million dollar project is well under way. The underground site work was massive with new water mains, sanitary and storm sewer lines along with a complex foundation plan. We currently have 26 separate contractors on board with materials and construction schedules currently being coordinated by Barton Malow. We made the decision to separate the mechanical and control work into two separate bids. This decision will save the District a very substantial amount of money, which can be channeled back into the construction.

In early January the control bids and north site work will be ready for Board of Education approval. That will give us a full complement of contractors to complete the project. In the meantime, the contractors are geared up for winter construction. The mechanical and electrical contractors have invaded the boiler room/receiving room and completed extensive work within the existing school during the Christmas and New Year Holidays. They will continue working in the corridors in between classes throughout the winter. All contractors have Barton Malow assigned badges and are well identified.

As work progresses on the ninth grade addition, the Spring will also bring major site work on the north side of the building. Construction on the north side will continue until the end of the school year. At that time, the entire school will be engulfed with contractors. Much school equipment will be moved to a temporary storage building provided by Atlas Tool & Die Company.

At the start of the 2008 school year, the District bus garage and Voc Tech classes will be relocated to the following locations:

- District Bus Garage from Roseville Jr. High to Warren Schools bus garage on Hayes and Martin Road.
- RHS Auto Repair to Roseville Jr. High bus garage.
- RHS Auto Body to Guest Community Center.
- RHS Machine Shop to Lakeshore High School in St. Clair Shores.
- RHS Wood Shop to Lakeshore High School in St. Clair Shores.
- RHS Drafting Class to Roseville Jr. High.

While it is hoped that some of the relocations will be short term, the District is prepared for the long term.

THIS WILL BE A SHORT TERM INCONVENIENCE LEADING TO A LONG TERM IMPROVEMENT.

PLEASE BE PATIENT AND UNDERSTANDING

JOSEPH G. STEENLAND ELEMENTARY SCHOOL
JOHN R. KMENT ELEMENTARY SCHOOL

Both of these new schools will be bid in January 2008 with construction scheduled to start in April of 2008. Both schools are scheduled to open at the start of the school year in 2009. Preliminary estimates from Barton Malow indicate that both schools should be within the budget as approved in the Bond by the taxpayers of Roseville.

TECHNOLOGY UPGRADES

Roseville High School - Planetarium CRT Projector:

- Replace the current CRT projector that is eight years old and is no longer supported by the manufacturer.
- Board of Education awarded the bid on October 16th for the amount of \$23,103.
- The custom built projector took nearly four months to be delivered and installed.

Roseville High School – Aquatic (Pool) Timing System & Scoreboard:

- Replace the current scoreboard and timing system that was purchased, in used condition approximately ten years ago.
- Board of Education awarded the bid on October 16th for the amount of \$25,950.

District Head End - Server and Storage Area Network (SAN) Implementation:

- Replaced district current network file servers and storage. This equipment which was more than eight years old, is the core of our district computer/network operations.
- Board of Education awarded the bid on February 7th for the amount of \$777,512.36.
- The amount of storage that is available to staff and students was increased from approximately 1.8 terabytes to almost 15 terabytes.
- Replacement of the existing file servers (new equipment has a 5 year warranty).
- Additional project requirements consisted of:
 - Migrating existing data to the new servers and storage.
 - Upgrading server operating systems.
 - Upgrading of existing e-mail (MS Exchange) operating system.
 - Replacement of tape backup system.
 - Integrating current networked attached storage solution (NAS) as a disk storage backup solution.
 - Installation of system management/operating software tools (with three year upgrade protection).

District Computer Replacement:

- Board of Education awarded the bid in June for the amount of \$1,330,633.88.
- The bid included desktop and laptop computers, carts, batteries, cart based wireless devices, and cart based printers.
- The bid included computers for the secondary schools, special education and kindergartens.

- The replacement of the equipment was a very high priority for the District. The computers to be replaced were beyond their useful life (computers to be replaced were 7 to 9 years old).
- The replacements are LCD panel based, desktop computers, compatible and licensed for Microsoft Vista and laptop computers.
- The bid provides a total of 773 desktop computers and 253 laptop computers.
- All computers have a five-year warranty and the software has a three-year software assurance. The assurance provides upgrades at no charge for three years.

Video Surveillance Systems:

- Board of Education awarded the bid in July for the amount of \$276,121.00.
- Video cameras are located at the entrances and exteriors of all buildings with the exception of those buildings that will be taken down.
- All secondary buildings and the Administration building have limited cameras in the hallways.
- All cameras are Internet protocol (IP) based. They control and monitor using current data network infrastructure.
- There are fifty-eight fixed position cameras and twenty-two pan-tilt-zoom (PTZ) cameras installed throughout the district. Included were two file servers and software that store the video content from the cameras.
- We are storing thirty days of video content.

Secondary Printer Replacement:

- Board of Education awarded the bid in December for the amount of \$120,914.25.
- Printers at Roseville High, Roseville Junior and Eastland Junior will be replaced
- The current printers are approximately eight to ten years old.
- The majority of the printers being replaced are ink jet printers.
- All teachers lab, and support staff printers will be replaced.
- Approximately 210 printers will be replaced.
- All new printers are manufactured by Hewlett Packard and are laser printers.

As you can see, 2007 has been a busy year but 2008 will make 07 look like a slow freight train. We look forward to the progresses, the many challenges, and a few more gray hairs that lie ahead in 2008.

Respectfully submitted,

Jere D. Diebold, Bond Coordinator
Roseville Community Schools