

**GLENBROOK HIGH SCHOOLS**  
**District Business Office**

**TO: Dr. Mike Riggle**

**FROM: Kimberly Ptak**

**DATE: July 15, 2013**

**RE: GBN Main Gym Floor**

Recommendation

It is recommended that the Board of Education approve the replacement of the GBN main gym maple floor and the underlying substrate. The existing substrate will be replaced with a cushioned system. Costs are estimated at \$195,000 and bids will be brought to the July 29, 2013 board meeting.

Background

As part of the FY 13/14 life safety infrastructure work, the Board approved a contract with Monarch in the amount of \$25,000 to refinish the maple floor in the main gymnasium at GBN. During the sanding process, a significant amount of nail heads and splintered boards began to surface and it was decided the floor had reached the end of its life (60 years.) There are two options which were discussed at the July 1, 2013 facility committee meeting.

Option 1: Replace the top maple floor over the existing substrate. Cost is estimated at \$95,000 or \$70,000 over the original work. The existing substrate is in good condition and little to no repair work to the substrate is expected.

Option 2: Replace the top maple floor and the underlying substrate with a cushioned system. Cost is estimated at \$195,000 or \$170,000 over the original work. The current substrate is a sleeper system made of wood and concrete, while a cushioned system adds a 2" layer of cushioned pads to assist in proper deflection and reduce the overall sports impact on the athlete.

Administration is recommending option 2 for the following reasons –

- The new floor will be in place for the next 50-60 years, so this is not something that will be revised in the near future.
- Studies indicate there are health and safety benefits to a cushioned system. There are a number of studies, primarily with dancers, that show over time there are significantly less stress related injuries to the shins and stress fractures to the feet and legs and less overall breaks. This is primarily true of sports involving a lot of jumping and landing.
- If a new floor were going in, a cushioned system would be used as opposed to the current substrate system. When the GBS practice gym was built in 2007, a cushioned system was installed.

Recommended Funding

There is \$93,500 of Build America Bond money that must be spent by the end of August, 2013. In addition, there is a \$200,000 construction contingency.