

December 28, 2009

VIA EMAIL

Dr. John Ahlemeyer
Gavin School District 37
25775 West Highway 134
Ingleside, IL 60041

Dear Dr. Ahlemeyer,

On Monday, December 21, 2009 I walked the attic areas of Gavin Central School along with two of my assistants from Legat Architects, and Steve Wright from DLA Architects. Mike Anderson and John Frase from the Regional Superintendent of Schools were also present and viewed the inspection of the first few trusses before leaving. Jon Sufra from WJE engineers, the firm that designed the initial structural corrective work on the school and Ralph Schmidt also from the Regional Superintendent's office arrived later in the day to review the inspection findings. The purpose of our walk-through was to perform a visual inspection of the wood trusses and to perform a thorough inspection on a number of trusses in Modules A, B, and C. The trusses listed below were inspected during this visit and were not the same trusses that were inspected in our previous visits since the repairs were completed.

- **Module C:**
Trusses 3, 4, 6, 18, 19, 20, 27, 37, 44, 49, 53, 60, 69, 76, 80, and 92

- **Module B:**
Trusses B2-1, B2-2, B2-3, B2-4, B2-5, B2-11, B2-12, B2-13, B2-14, B2-15, and B2-16

- **Module A:**
Trusses 5, 7, 10, 18, 22, 34, 43, 52, 59, 64, 72, 82, 86, 87, 88, 92, 93, and 94

The truss numbers listed above are from the original truss report and are marked on the trusses in the field. The primary items we were looking for were any type of longitudinal or transverse fractures in the wood members of the trusses.

During the inspections the following conditions were observed and discussed with Jon and Ralph. A preliminary evaluation based on these discussions follows the statement of conditions. It should also be noted that if a fracture or condition was observed that was structural in nature, the adjacent trusses to the fractured truss were also thoroughly inspected to insure that the load transfer from the fractured truss did not have a detrimental affect on these trusses.

- **Module C:**
Truss 19 – Partial bottom chord fracture. It was felt that this fracture was the result of mishandling of the truss or occurred during the original repairs and was not caused by loads on the truss. WJE will provide a repair detail for this condition.

Dr. John Ahlemeyer
Gavin School District 37
12/28/2009
Page 2 of 3

- **Module B:**
Trusses B2-5 and B2-11 – Horizontal check at bottom chord located at the connector plate. This is a seasoning check in the wood and does not affect the structural integrity of the truss. This condition will be monitored in future inspections.
- **Module A:**
Truss 93 – Full bottom chord fracture similar to those observed during the original corrective work. This appears to be a stress related separation and requires repair. WJE will provide a repair detail for this condition.

Truss 87 – Partial bottom chord fracture. Again, it appears that this fracture was the result of mishandling of the truss or occurred during the original repairs and was not caused by loads on the truss. WJE will provide a repair detail for this condition.

Truss 22 – Horizontal cracks and minor vertical cracks over a 10' length of the truss bottom chord. Although this is not a structural concern at this time, Jon felt that these cracks could develop into the type of fractures that were observed in the original repair work. WJE will provide a repair detail for this condition.

Trusses 16 and 26 – Longitudinal seasoning check in the truss vertical chord. These seasoning cracks are normal occurrences in wood as it ages and are not a structural concern. No repair necessary.

Trusses 90, 94, and 96 – Wood splinter on vertical chord member of truss. These splinters are the result of nailing the new strongback reinforcing members to the vertical chord members during the initial corrective work. Jon felt that these splinters would not have a detrimental structural affect on the truss. He stated that he would check the members to confirm this.

Attached are pictures of each of the occurrences mentioned above. WJE has been authorized to analyze the conditions indicated above and will develop repair details wherever necessary. These details will be presented to the School District and the repairs will be completed over spring break with the Board's authorization by Boller Construction.

Dr. John Ahlemeyer
Gavin School District 37
12/28/2009
Page 3 of 3

I will forward the repair details from WJE when I receive them. Please let me know if there is any additional information that you or the School Board might require.

Sincerely,
Ted Haug, AIA

Cc : Steve Wright, DLA
Ralph Schmidt
John Sufra, WJE