



Consulting Engineers

October 18, 2007

Mr. Nicholas Harris
Archon, Inc.
2850 SW Cedar Hills Blvd, #246
Beaverton, OR 97005-1393

RE: Lincoln High School Grandstand
Analysis and Inspections

Dear Nick:

This letter is to summarize the results of our lateral analysis, Carlson Testing's inspections, and our recommendations regarding the Lincoln High School Grandstand.

As requested we've conducted a lateral analysis of the grandstand. Our analysis was based on sway loading specified in ASCE 7-05, Table 4-1, footnote d which specifies a sway load of 24 pounds per foot of seating parallel to the seats and 10 pounds per foot perpendicular to each row of seats. Based on the structure shown on the original drawings, the lateral system appears adequate to support the anticipated loads.

The original drawings show wide flange beams supporting the seats. However, in the as-built structure beams were replaced with the trusses fabricated from angles. Based on Carlson Testing's inspection report regarding the welds connecting the truss members, it appears the trusses may not be adequate to resist the anticipated dead and live loads.

Carlson's report indicates there are approximately 200 welds on each truss. There are approximately 60 trusses with at total of 12,000 welds. They inspected approximately 3% or 360 of these welds. Of these, 80% did not meet American Welding Society standards, 50% had major discontinuities, and 3% showed visual signs of cracks. Because of the weather non-destructive testing measures used to indicate cracks were not possible.

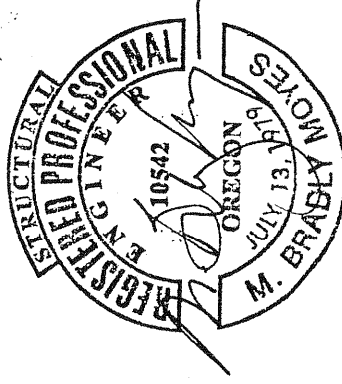
Based on this information it appears the grandstand may be beyond its useful life and no longer suitable for occupancy. It may fall under the provisions of the City of Portland code regarding dangerous buildings and shall not be used until the truss members are repaired or the grandstand is replaced.

Please call if you have any questions.

Sincerely

Ronald G. Kernan P.E., S.E.
Associate

Attachment
207533/letter 10-18-07.doc



EXPIRES: 12-31-08

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