

File: 12610

May 13, 2026

Township of Rideau Lakes
1439 County Rd. 8
Delta, ON
K0E 1G0

Attention: Steve Holmes, C. Tech, Manager of Facilities and Parks
parksmanager@rideaulakes.ca

Dear Sir:

Re: Structural Review
Fire Station No. 3/ Elgin Public Library
26 Halladay St.
Elgin, ON

As requested, the undersigned completed a review of the cistern suspended slab and supporting structure at the above-noted facility. The cistern is located beneath the main floor of the library; it is known to be in poor condition. The purpose of our review was to complete an assessment and provide recommendations to when the repairs as detailed by our firm are to be completed.

During our review, we completed a visual inspection of the metal deck, W8 support beam, and W4 column in the cistern. We also complete a scrape test on the beam to determine the level of sectional loss on the structural members at the critical tension section. Our results showed an average of 50% section loss in the beam's bottom flange. We also noted that the deck and concrete were in very poor condition at the hatch area, which is the primary entrance to the library.

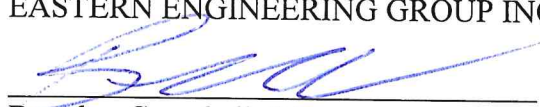
Based on our observations, we believe the work is required immediately. The deterioration of the structure is causing the deformation of the floor structure and its supporting members. Deflections were visibly observed during our review.

It is our opinion that the remediation should be implemented within 14 weeks, on September 1, 2026. It is possible to extend this timeframe by limiting the floor loads; however, this is not recommended.

We have included photographs in this report to support our findings.

Please do not hesitate to contact us with any questions or concerns.

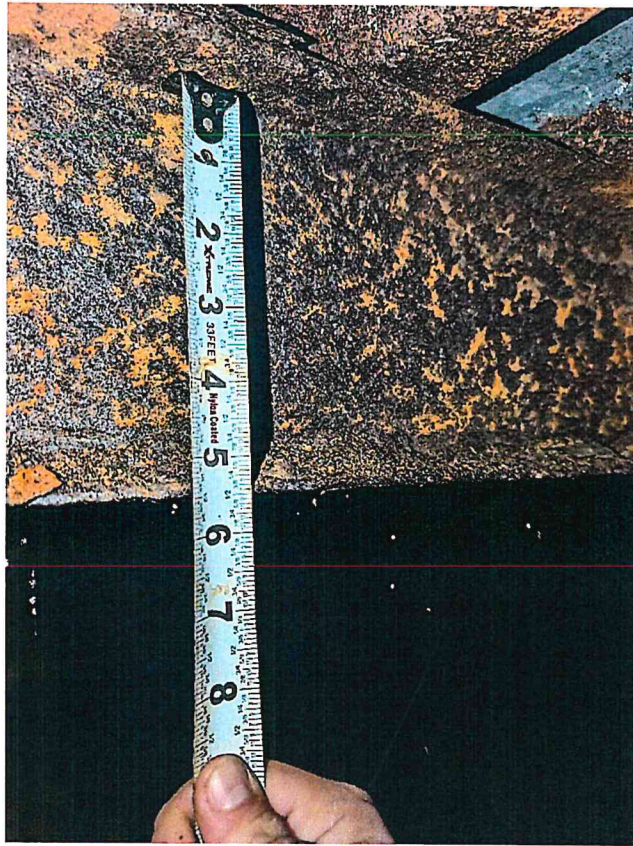
Sincerely,
EASTERN ENGINEERING GROUP INC.



Brandon Campbell, P.Eng.



c.c. Site Photographs



Scrape Test – Showing 50% Section Lose



Pan in fair condition – Column and Beam in Poor Condition



Rot in Concrete and Frame at Entrance



Scaling of the Beam Supporting Metal Pan



Severe Corrosion of the Metal Pan and Entrance