

# Seattle Structural

3131 Elliott Avenue, Suite 600A, Seattle, WA 98121-1047  
206-343-3000  
www.SeattleStructural.com

September 17, 2020

Mr. Cale McPherson  
City of Seattle - Office of the Waterfront and Civic Projects  
Seattle City Hall  
600 Fourth Avenue, Fifth Floor  
Seattle, WA 98104

SUBJECT: Pier 58 Waterfront Park  
Seattle, WA

RE: Emergency Demolition

Dear Cale:

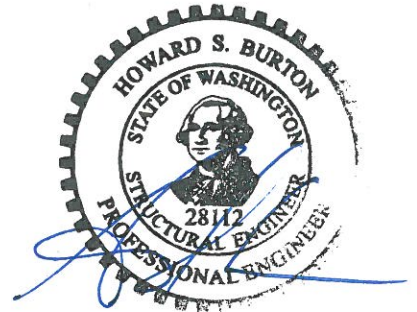
Upon further consideration of potential risks associated with the south terrace, particularly as these risks relate to Pier 57, we have prepared the following comments:

1. The north terrace failure on September 13 originated in the trellis area. This failure was not anticipated as the likely initiation point of a possible collapse. The failure appears to have been spontaneous and vertical.
2. Demolition activities adjacent to the south terrace, and the eventual demolition of the south terrace and surrounding timber deck, could result in a similar spontaneous vertical collapse of the south terrace.
3. The south terrace is more structurally integrated with the surrounding structure than the north terrace was. It is likely that the failure and collapse of the south terrace would extend into the surrounding timber-decked areas, as well as into the apron area of Pier 57 adjacent to the street where the south terrace ramp meets the sidewalk. A failure of the south terrace would likely impart a lateral load into Pier 57. Included in the zone of potential risks are the electrical services that enter Pier 57 at the south end of the south terrace ramp.
4. The possible collapse of the south terrace represents an imminent danger to the surrounding structures.
5. Given the structural proximity of the south terrace ramp with Pier 57, and the possibility of force transmission to Pier 57 through the timber deck areas of Pier 58, steps should be taken to demolish the south terrace, or remove structural elements surrounding the south terrace that could transmit lateral forces to Pier 57.
6. Prior to taking steps to reduce potential risks to Pier 57 from a south terrace collapse, a condition of imminent danger extends to Pier 57 and the related electrical services.

Please let me know if you have further questions.

Sincerely,

Howard Burton, P.E., S.E., President  
Seattle Structural PS Inc.  
HBurton@SeattleStructural.com



HSB/rms

S:\Feb2020\Projects\SEATTLE PARKS\Pier 58 Waterfront Park 2020\Corresp\Pier 58 Review September 17, 2020 Letter.docx