

12.12.2016

Memo

To
Elaino Ott

From
Eric Wyatt

CC

Re: **Gallery at Point Robinson Lighthouse**

Comments:

The gallery (walkway) on the Point Robinson Lighthouse (PTR) is showing signs of deterioration with cracks appearing on the underside. This morning I spoke with architect Gene Grulich about possible causes and remediation.

Grulich, who wrote the master plan for PTR, stated that the base of the building was built up to the top of the windows, and then capped with 4 - 6 inches of concrete to form the gallery. One hundred years ago, when the structure was built, it was not thought that concrete was porous, which is false. It was common to use salt on decks, which would seep into the concrete, affecting the rebar by causing the calcium in the metal to dissolve. This rust carbonization is very common according to Grulich, and his company deals with it on a regular basis. The rusting leads to spalling where material begins to break away. It was only in the late 1960's to early 1970's that carbonization became a widespread issue and the reason why bridges are no longer salted.

Grulich thinks that our issue might only be on the perimeter. If this is the case we can pick away at the spalling by sandblasting the concrete over the rebar and after the repair work, apply a topping to seal the gallery. He estimates the cost of repair to be between \$10 thousand to \$20 thousand dollars.

I will be meeting with Gulrich on Friday, December 30th at 9:30 a.m. at PTR for a physical examination of the gallery.

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