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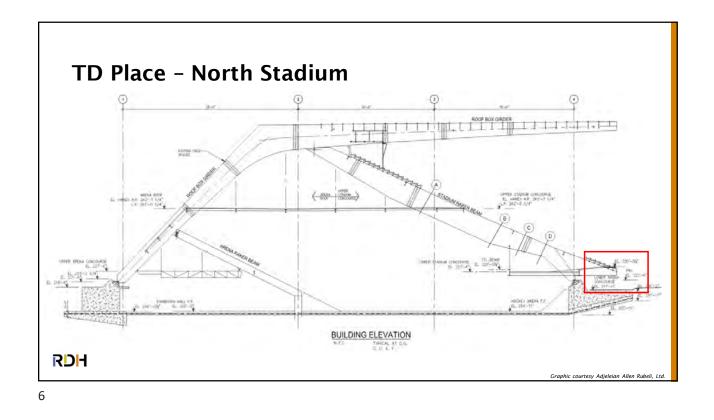
details, techniques, practices and procedures

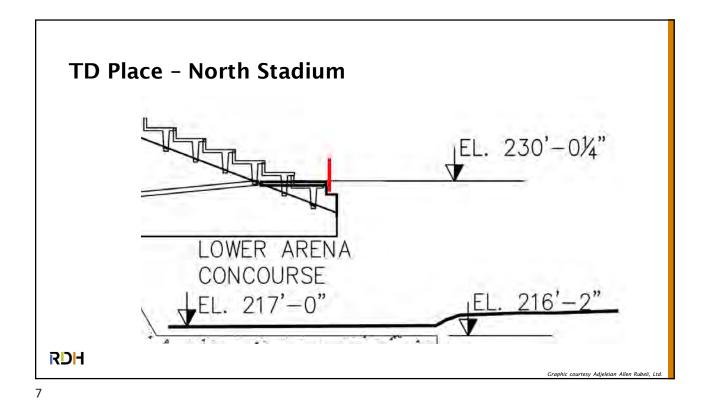
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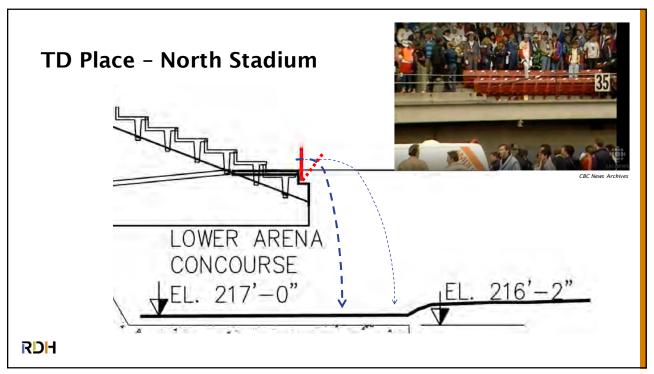
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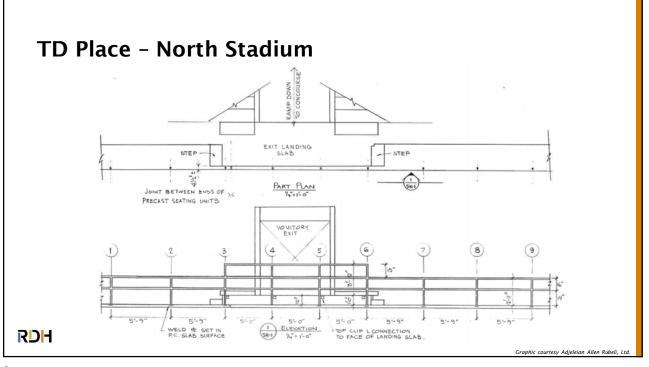


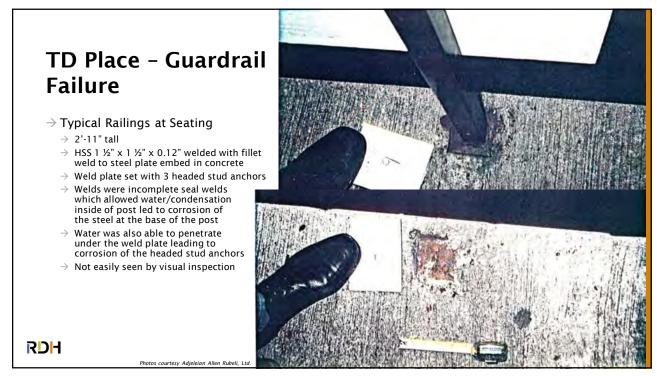


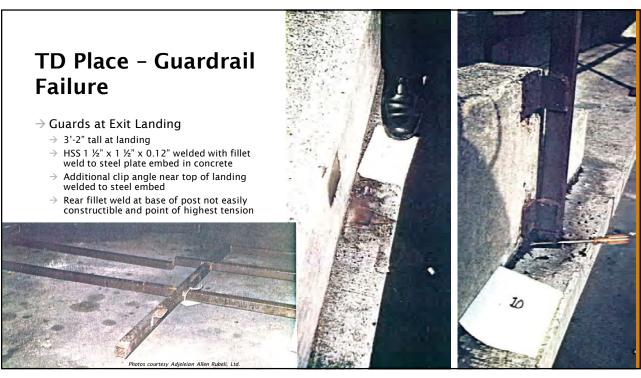


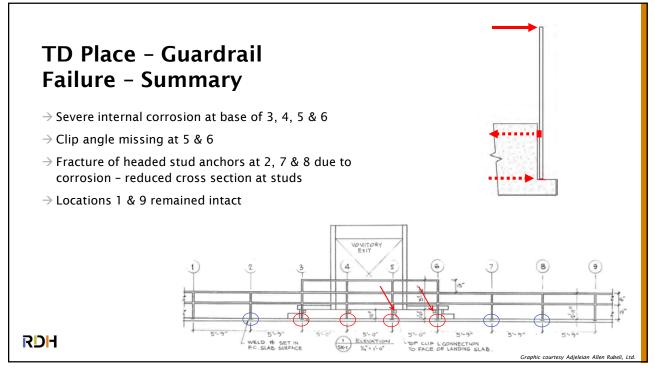


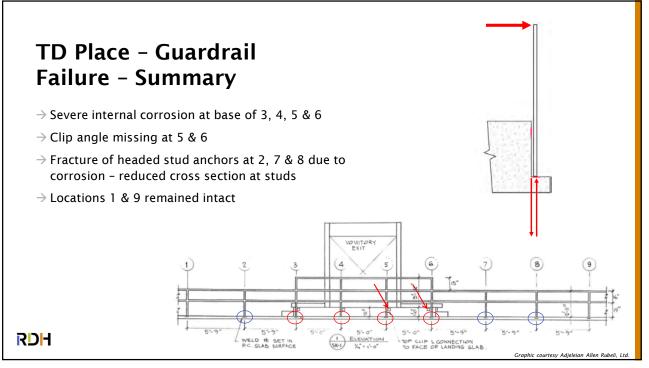


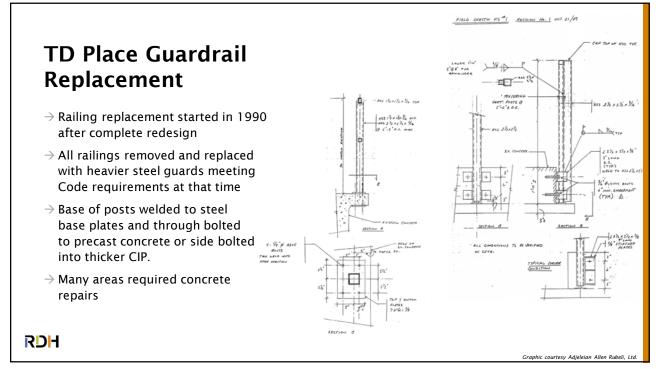


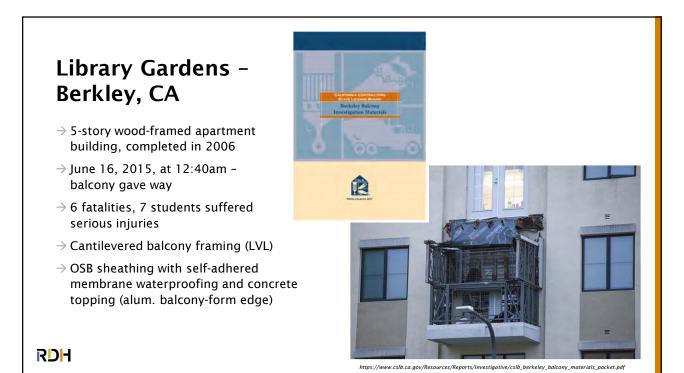


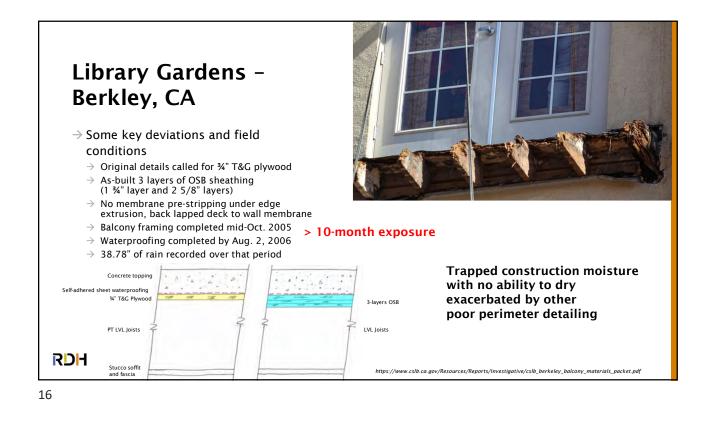






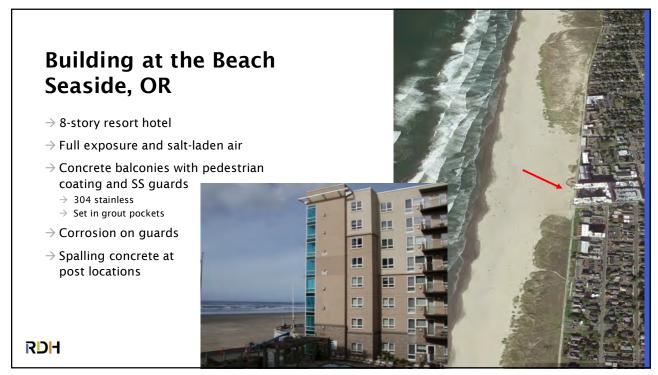






Library Gardens -Berkley, CA - Outcomes \rightarrow California Building Code and Berkeley \rightarrow California Senate Bill 721 (2018) → Apartments (multi-family residential with Municipal Code updated to include: 3 or more dwelling units) → Section 1202.7 - Added vented space under → Requires inspection of 15% of *Exterior* balconies, decks, etc. (1/150th of area) **Elevated Elements** Sections 1404.13, 2304.11.1, and \rightarrow Review on 6-year intervals 2304.11.4.2 - Materials to be naturally durable or PT wood and corrosion resistant metal components \rightarrow California Senate Bill 326 (2019) → 601.4 Structural Maintenance \rightarrow Essentially all elevated balconies, decks, \rightarrow Condos stairs, landings, handrails and all parts of \rightarrow Requires inspection of a "statistically weather-exposed areas Group R-1 or R-2 significant sample" of Exterior Elevated to be inspected on 5-year interval. Elements, for 95% confidence level, + 5% margin of error → Review on 9-year intervals RDH

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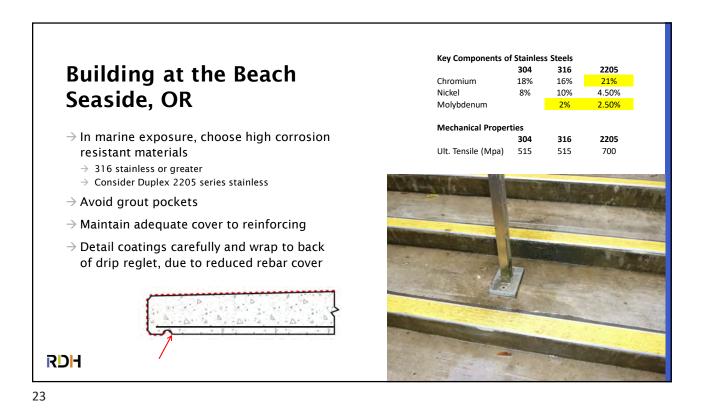


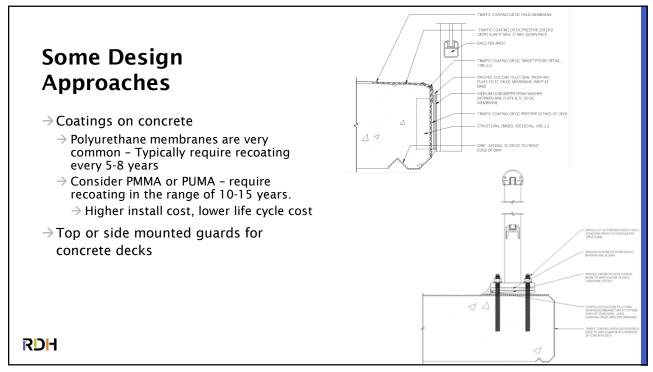


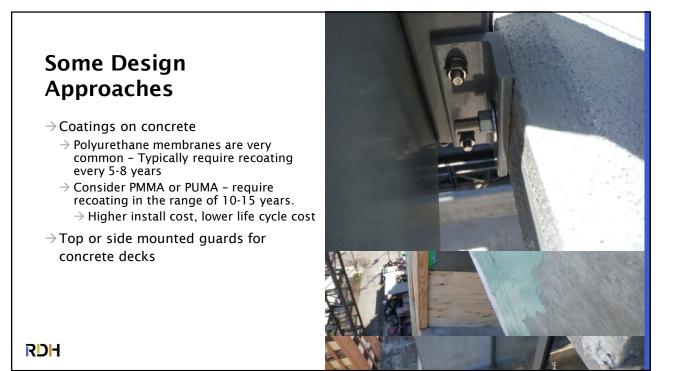


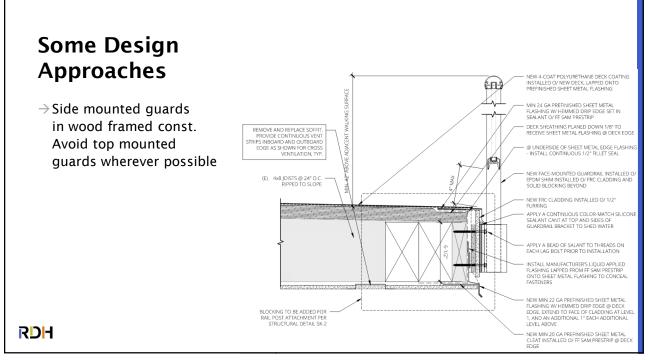


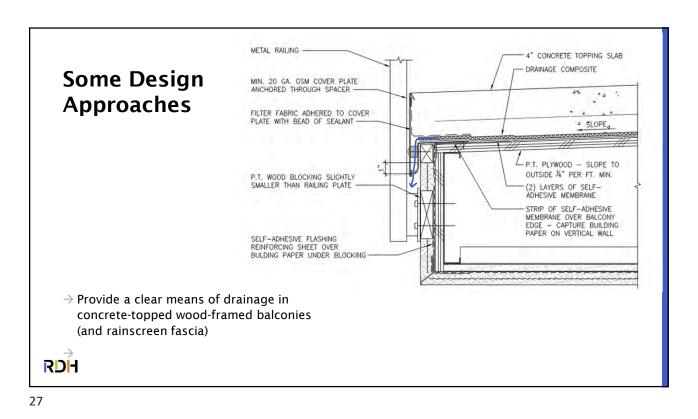








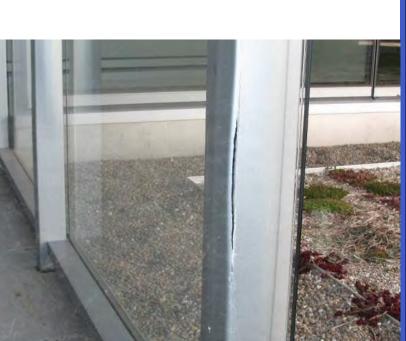








- ightarrow Freeze/Thaw can also manifest in other ways
- → Example of split railing - Photo taken in January 2009



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Portland Condo – Balcony Guards

Example of bowed railing post deformation as a result of frozen water and lack of drainage (photo taken August 2011).

ightarrow Condition observed at several balconies



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Portland Condo -Balcony Guards

- → Weep holes provided after 2009 event. Staining and residue from drainage at weep hole. Condition observed at most balconies and deck guards during August 2011
- → Example of water released from weep hole after removal of a buildup of residue that blocked the weep hole. Observed at numerous locations.
- \rightarrow Solution provide adequate means of drainage

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