Alternative Roadway Paving Treatments

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PPM, Vol. 1, Chapter 2 Section 2.1.6.1

"In cases where existing alternative pavement is being removed as part of a Department project, replacement of such pavement shall adhere to the requirements in this section regardless of the circumstances of the original installation and maintenance."

- Maintenance Memorandum of Agreement shall be entered into with the local government agency
- Local agencies must fund and maintain, including testing

Bridge Railing

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PPM, Vol. 1, Chapter 25 Section 25.4.24.3

- Address bridge rail on RRR projects
- Practical Design allows some flexibility

KEY INFORMATION

• Obsolete bridge rail requires a Design Variation

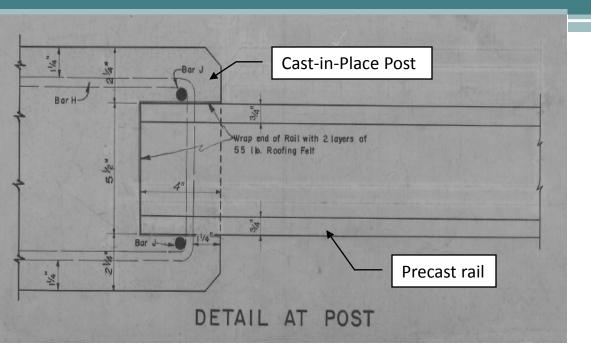
FHWA's Mitigation Strategies for Design Exceptions: Bridge rail that is structurally sound and meets current crash test standards is an important safety consideration, and updating substandard barrier is an important safety improvement on 3R and other projects. However, the type or condition of bridge rail is not considered to be one of the 13 controlling criteria that require a formal design exception.

- Inadequate approach bridge rail transitions require correction.
- Except for continuous post & beam rail, all obsolete rail must be upgraded or obtain a Design Variation.



Structurally Discontinuous Post & Beam Rail

- No structural continuity between rail members and posts.
- Higher severity of crashes at all design speeds.



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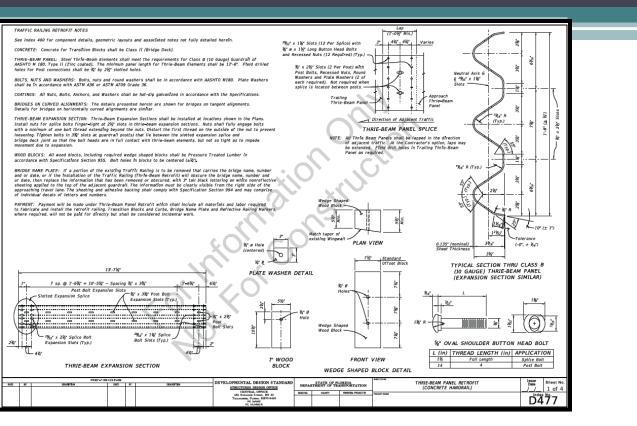
PPM, Vol. 1, Chapter 25 Section 25.4.24.3

- No structural work being performed on the bridge.
- No changes in the existing approach roadway alignment or cross section.
- No crash record or evidence of impact.



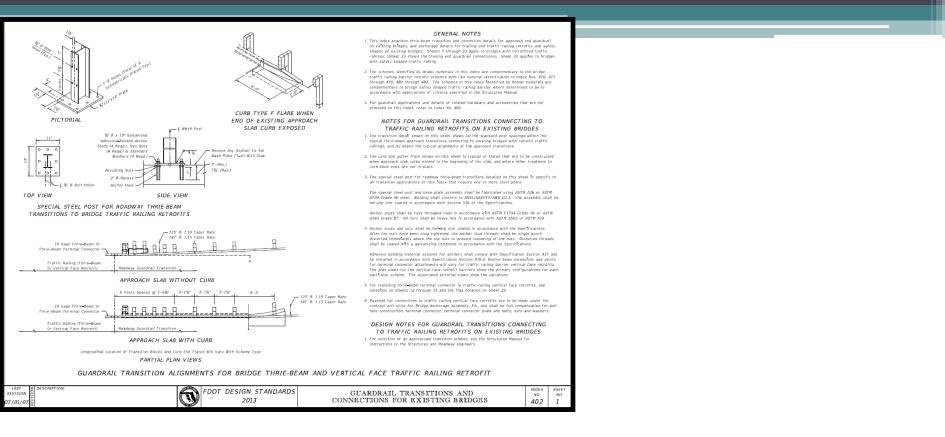
PPM, Vol. 1, Chapter 25 Section 25.4.24.3

- A new Design Standard 404 will be published in July 2013
- Until then, the designer must provide plan details for attaching the standard approach guardrail transition to the bridge rail.



Index D477

• Developmental Design Standard D477 addresses continuous post & beam retrofit and transition only.



• Design Standard Index 402 in combination with the 470 and 480 Series can be used with almost any type of obsolete railing