

Preserving Prestressed Concrete (Wednesday 8/23, 2:25 pm)

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Owners first reported out on what type of PS concrete bridges they have in their inventory

- NJ – AASHTO girders, some piles, some PS culverts, a few segmental boxes, square piles are common
- MA – beams and box beams
- NY – Bulb tees, NEXT beams, adjacent box beam, have problems with their adjacent box beam bridges
- CT – AASHTO I beams, adjacent box beam
- DE – AASHTO beams, NEXT beams, adjacent box beams
- DC – prestressed and post-tensioned members

Do owners have problems with deteriorated joints?

For deteriorated beam ends have seen fiber wraps as an option for repair.

NY has used FRP on the bottom of beams to repair impact damage

What changes are being made now to details?

Anything new with beam end details?

MD – deck extends over the back wall

NY – using integral and semi-integral abutments

Different repairs for beam ends?

MA – does not try to repair them, works to replace the bridge

DE – has tried a different patch material that is easy to apply to the bottom of beams which sticks, like a thick putty

Anything new with contracts?

DE – nothing really new

No real solutions to this problem

Has anyone used polymer concrete?

NH – used on some overlays

NY – some substructure repairs, because of speed of repair

A lot of discussion around adjacent box beam bridges, which any state that has them seem to have issues with them. Issues tend to be longitudinal cracks, deteriorated shear keys, and rotated girders.