**A3664, A3665 & A3666 Field Visit – 11/19/19 Mike Harms**

The purpose of the visit was to fill out and develop the Bridge Rehab Checklist.

Items Noted:

* Suggest adding to Deck Survey MOU to determine extent of deck repair needed since the bridges are so long. Gave to Bill Dunn to execute bridge scanning MOU assuming it will not be too costly.
* Could consider hydro demolition and modified latex instead of removing and replacing the low slump using traditional deck repair methods – Evaluate during preliminary design.
* Plan to replace all expansion joints and paint at joints except as noted below.
* In general, at bents near joints with parabolic girders, suggest painting beyond the typical 10 ft. and painting past bottom of parabolic including bearings at bent. Most of the parabolic areas near the joints were rusted and needed paint since the salt water drains to the low points.
* Strip Seal near bent no. 3 on north side of WB bridge draining/dripping directly on girder/cap. Suggest extending new seal at least 15”-20” past outside edge of barrier.
* Spot painting needed in several areas of superstructure on both the east and west approaches.
* May consider overcoating exterior girders if pull-off tests come back good. However, several areas with visible rust so likely will need System G paint. Possibly could just paint exterior girders, paint under joints and spot paint interior girders as necessary.
* Noticeable map cracking in bottom of deck in west approach deck of WB bridge and main spans. But, very fine cracks still think replacing the overlay is the way to go.
* WB bridge joint near pier 6, north ext. gdr. shelf deteriorated with significant rusting – may need structural steel repairs in contract, could not determine from ground.
* Extend paint through fishbellies (parabolic portion) and brgs. at joint near pier 9.
* Extend paint through fishbellies (parabolic portion) and brgs. at joint near pier 11.
* Extend paint 25’-30’ back toward east for straight girders at joint near pier 11.
* Seal Caps at all exp. piers including end bents. In addition, seal A3664 Pier 3 columns to groundline.
* A3665, paint exterior girders especially south side.
* Substructure Repair – A3664: pier 3 – most of west side needs repairs, cap and columns to groundline, pier 4 – cap and north column – say 40 SF, pier 6 – cap and west side columns; A3666: Bent no.4 – cap and column – say 20 SF.
* Several areas at the east and west approaches where drainage pipes need to be replaced or are missing. Should “overhaul” drainage system during this contract.
* Have swallow nests on west approach.

Suggest field visit during preliminary design with District Bridge Engineer to determine quantities and method for painting, quantity of substructure repairs and to better determine extent of repairs to drainage system needed. May need snooper crew or ladder to look at exterior girder shelf near pier 6.