**Add the following to Subsection 105.20:**

If the non-compliance with 105.19 causes structural capacity damage to an existing structure, the Contractor shall submit a repair procedure to the Engineer to repair the defect.

The defect categories and repair requirements are defined as follows:

1. *“In-kind” repairs*. In-kind repairs are repairs where the As-Built plans are utilized to replace or repair damaged components with identical dimensions and materials used in the As-Built plans and where no plan modifications are made. In-kind repair procedures shall be reviewed and accepted by the Engineer before any repair. The use of approved repair grouts or doweled reinforcing with epoxy adhesive is permitted in in-kind repairs. Doweled reinforcing shall meet the strength requirements of the original design.
2. “*Modified repairs*”. Modified repairs are those which deviate in dimensions and/or materials from the As-Built plans. Modified repair procedure submittals shall include calculations, independent design calculations, shop drawings, and/or working drawings per 105.02, and any other applicable section of the specifications for the needed repair. The Contractor’s Engineer shall electronically seal Modified repair submittals.

Damage to new structures or modified structures, shall be repaired per the contract documents.

The Engineer of Record shall be notified and review all corresponding submittals before any

repairs.