

**Call 05 Bridge Preservation on I-10 over East Pascagoula River Bridge, known as Federal Aid Project No. NHPP-0010-01(160) / 107215301 in Jackson County.**

- Q1. Settlement gage questions: **1.** Is relative settlement of piles within a single bend acceptable or is absolute settlement required? **2.** Is relative displacement of 291R and 304R required (i.e. do the two systems need to be linked?) **3.** Is settlement of the pile bent as a whole require, side-to-side, or each pile required? **4.** What duration of monitoring shall be included as part of the installation package? **5.** Please provide acceptable sensor precision requirements or acceptable 'in-kind' sensor example. **6.** How should the data logger be installed to the bridge (i.e. pole mount serviceable from the roadway, underneath requiring boat access, etc.). **7.** Please provide materials and workmanship warranty requirements.
- A1. **1.** See sheet 8009 and the general notes for instrumentation requirements. **2.** No. **3.** The intent of the settlement gages is to monitor overall settlement of Bents 291R and 304R, differential settlement from end to end along each bent cap, and rotation of the bent cap about the longitudinal axis of the cap. Monitoring of individual piles will not be required. **4.** Monitoring will not be required as part of the installation package. Contractor shall ensure the settlement gage system is fully operational at project close-out and shall maintain the system's functionality for one year as per Section 108.10 of the Standard Specification. Prior to project close-out Contractor shall provide Operation and Maintenance manuals for installed system as well as coordinate with MDOT regarding alert notification setup as described in the plans. **5.** Sensors shall be accurate to within 1/16" (0.005'). Threshold for notification alerts shall be adjustable to disregard erroneous or minor movements observed by the sensors. **6.** Data logger shall be serviceable from the roadway without the need for access equipment. **7.** All settlement gage components shall be intended for outdoor application. All other components shall be corrosion resistant. All anchor devices shall be stainless steel. Warranty requirements will be in accordance with Section 108.10 of the Standard Specifications.
- Q2. The bearing pad contingency plan states that the contractor might be required to leave the existing bearing pad in place, with or without shimming. Should this occur, please confirm that the MDOT will still pay for Pay Item # 907-824-PP006 Bearing Pad Replacements at each of these locations?
- A2. Yes, the Contractor will be paid under pay item 907-824-PP006, Bearing Pad Replacements.