

LA DOTD BRIDGE MAINTENANCE

DIRECTIVE #1

MARCH 16, 1989

Rev. NOVEMBER 30, 2011

**STREAMBED PROFILE FOR ALL BRIDGES OVER WATER**

- PURPOSE:** To establish a formal policy and procedure for maintaining current data regarding stream bed profiles at bridges pursuant to EDSM IV.4.1.2.
- SCOPE:** This Directive applies to all bridges over waterways on all highways, roads, and streets in the State of Louisiana.
- POLICY:** All bridges over waterways require a stream bed profile as part of the regular bridge inspection process; refer to the Manual for Bridge Evaluation (MBE) Second Edition - 2011 section 2.4.1 (2). A stream bed profile shall be taken during every Routine inspection with the exception of scour critical bridges and bridges with Plans of Action (POAs), which are required during each and every bridge inspection. All profiles are to be recorded in a dated inspection report and uploaded into the PONTIS system.
- PROCEDURE:** The stream bed profile is normally accomplished by dropping a weighted tape from the bridge deck at uniform intervals, beginning with each bent. Additional measurements shall be taken at points where the bridge inspector suspects a change in profile. The bridge inspector shall use best judgment and discretion when deciding upon measurement intervals. For large bridges over major waterways, where the use of a weighted tape or other easily deployable measurement system is impractical, hydrographic surveys shall be performed periodically by the Location & Survey Section. The District ADA of Operations is provided copies of these hydrographic surveys for their review and files. An electronic version of these surveys is added to the PONTIS media server for the bridge each month as they are made available and must be made part of the inspection records by reference. Bridge Inspectors shall note the following on all bridge inspection reports:
1. If a hydrographic survey is on file and the date of the latest survey
  2. The fact that they have reviewed the survey
  3. Any problem, or the lack thereof indicated by the survey
- Supplemental hydrographic surveys shall be performed by the bridge inspectors via boat and lead line or sonar at any time there is a question regarding scour. Critical and/or unusual conditions or findings may warrant a supplemental field survey by the Location & Survey Section's Hydrographic Survey Team. District Bridge Inspectors shall initiate such requests to Location & Survey section whenever they are deemed necessary.

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**RESPONSIBILITY:** The DOTD District ADA of Operations shall be responsible for the implementation of this policy.

**EFFECTIVE DATE:** This policy shall become effective immediately upon receipt.




Recommend Approval

Bridge Inspection Engineer (SEC. 51)



Recommend Approval

Structures and Facilities Administrator (SEC. 51)



Approved

Vincent C. Latino Jr., P.E.

Chief Maintenance Engineer