

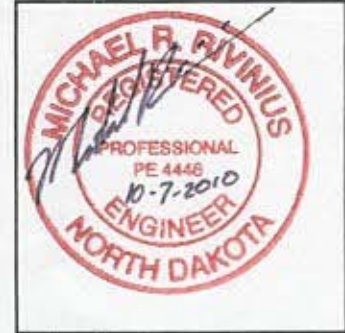
HYDRAULICS ANALYSIS

TO: FEMA
Foster County Commission

FROM: Michael R. Rivinius, P.E.
Wold Engineering, P.C.

DATE: October 7, 2010

RE: Foster County - Application Ref No. FRBRO1C
Hart Bridge, Br. #16-122-16.0
Sec 22, T145N, R64W



I. PURPOSE

The purpose of this memo is to evaluate a replacement option that will provide a crossing that has a 15-year headwater that closely matches the existing conditions and meets the headwater limitations set forth in ND Century Code 89-14-01-05. The Hart Bridge, BR 16-122-16.0, located at Section 22, Township 145N, Range 64W, see Figure 1 below. This bridge was damaged during the 2009 spring flood event.

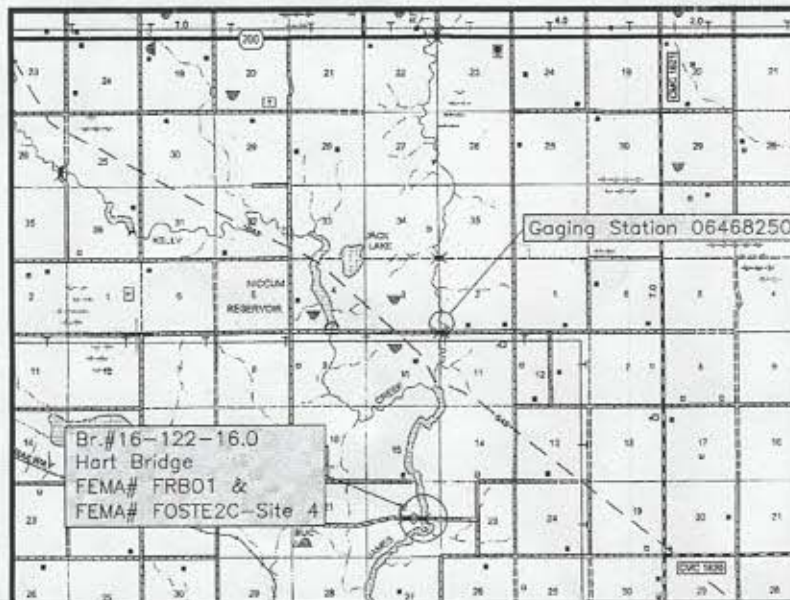


Figure 1 - Location Map

