"Bridge-Type Specific Management of Steel-Stringer Bridges in Ohio, Principal Investigator, Phase 1: Verification and Demonstration of the Experimental Tools," Sponsors: Ohio Department of Transportation (Project# 8394) and FHWA, $576,890 and $100,000 supplemental funding from FHWA Advanced Research Office (1996-1998).

Transforming a bridge into a laboratory:

- Bumpers were bearing against abutment, sometimes warping lower flange of girders and in other cases shearing off
- Expansion joints were closed
- Some bearings had poor contact
- North end concrete deteriorated under asphalt
- Northwest corner of deck was making contact against approach

Damage Scenarios: Steel Superstructure

- One-Sided Flange Cut
- Two-Sided Flange Cut
- Web Cut
- Crossframe Cuts