



Bridge 17.44 Crossing Shermer Road, Glenview, IL at a skew



Bridge site filled to restore traffic



Beam Set 1 – Accident damage readily noted
Beams remain intact as a set



Beam Set 1 – Beam material
Full section; S-type beams



Beam Set 2 – One beam displaced from set.
Wide flange type beams.



Beam Set 2 – Beam material found in full section.
All “dings” are new.



Beam Set 3 – Major sweep cause by accident.
Set is upside down.



Beam Set 3 – “S” type beams,
Full section, diaphragm intact.



Beam Set 4 – Wide flange type beams, diaphragms at bolt locations, open holes from prior attachments.



Beam Set 4 – Full section, minimal damage



Beam Set 1 – Tear in flange with fresh rust indicating accident damage (circle);
Diaphragm connection angle torn in accident (arrow)



Beam Set 1 – Fresh tear in diaphragm connection angle. Only fully severed connection angle. Open holes in beam from prior attachments (box).



Common attachment of beam ends to sole plate with fillet welds; Sole plate connected to substructure with anchor bolts.



Beam Set 3 (upside down). Bright rust is location of broken weld (accident) connecting beam to sole plate (arrows). Note excellent condition of diaphragms.



View of multiple bridge components all in full section and good condition.
Left center – 9 ' long beam (jump span)
Far center - grillage assembly



Close-up of grillage assembly in full section and good condition – installed during recent bridge upgrade.



View of 1.5" thick base plate with anchor bolts, bolster and short beam section from an abutment.



View of center pier cap with side cracks in the reinforced concrete.