

NSBA STEEL BRIDGE FORUM

Steel Bridge Fabrication

- Host: Minnesota DOT in conjunction with Minnesota ACEC
- Date: October 28, 2021
- Time: 1:00 PM – 2:00 PM
- Location: Virtual on-line via Zoom

Steel bridge fabrication process, coatings, common issues and resolutions

By: Ankit Shah (Industrial Steel Construction)
Kevin Bird (Veritas Steel)

Steel Bridge Fabrication



Steps taken to fabricate

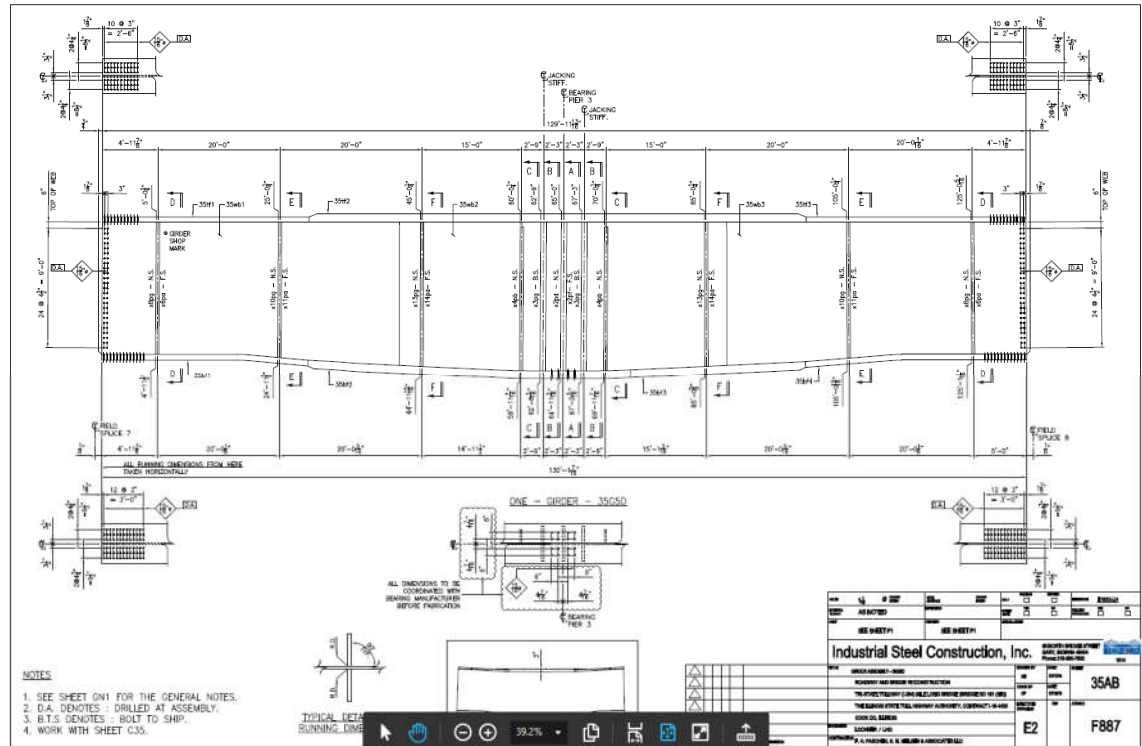
- Raw Material
- Preparation
- Shop Drawings
- Girder Assembly
- Fit & Weld Components
- Laydown
- Cleaning & Painting
- Final Inspection
- Shipping

Steel Bridge Fabrication

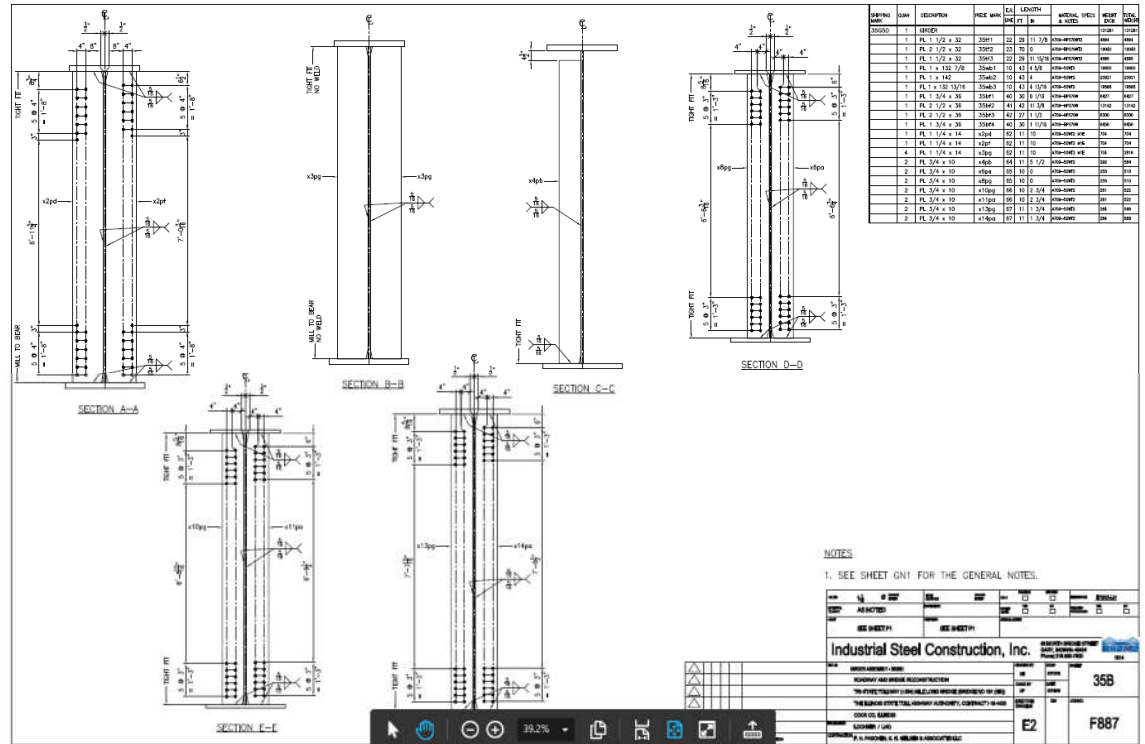


Raw Material

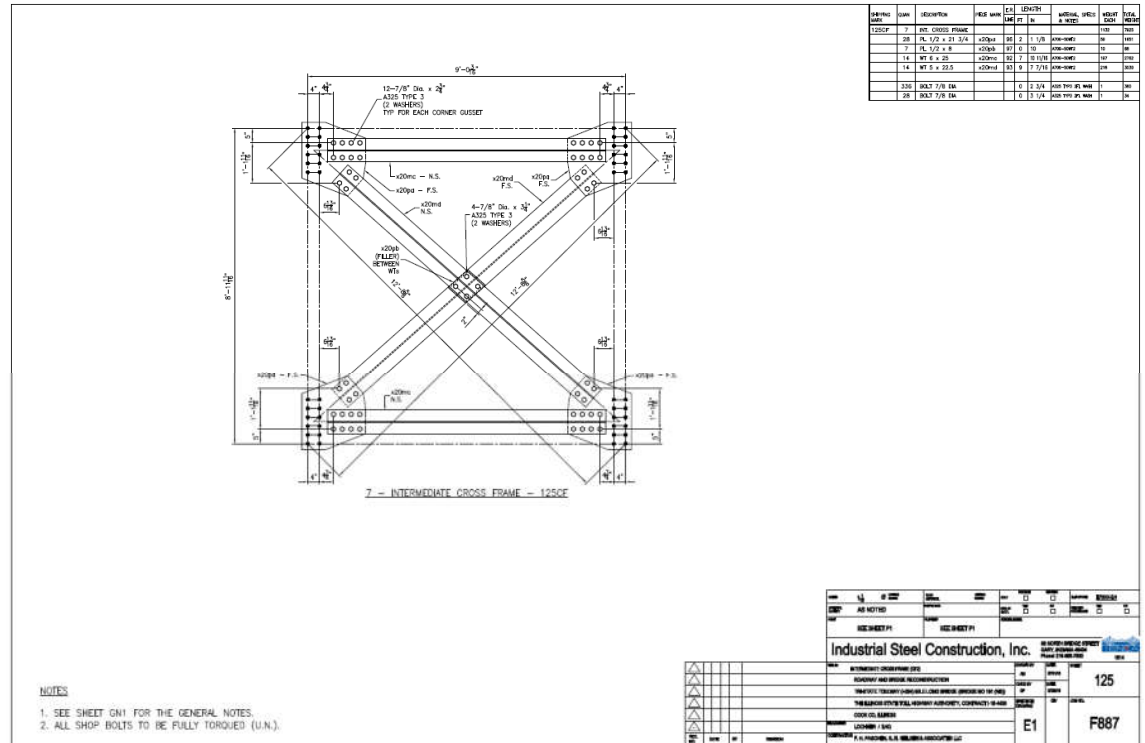
Shop Drawings: Primary



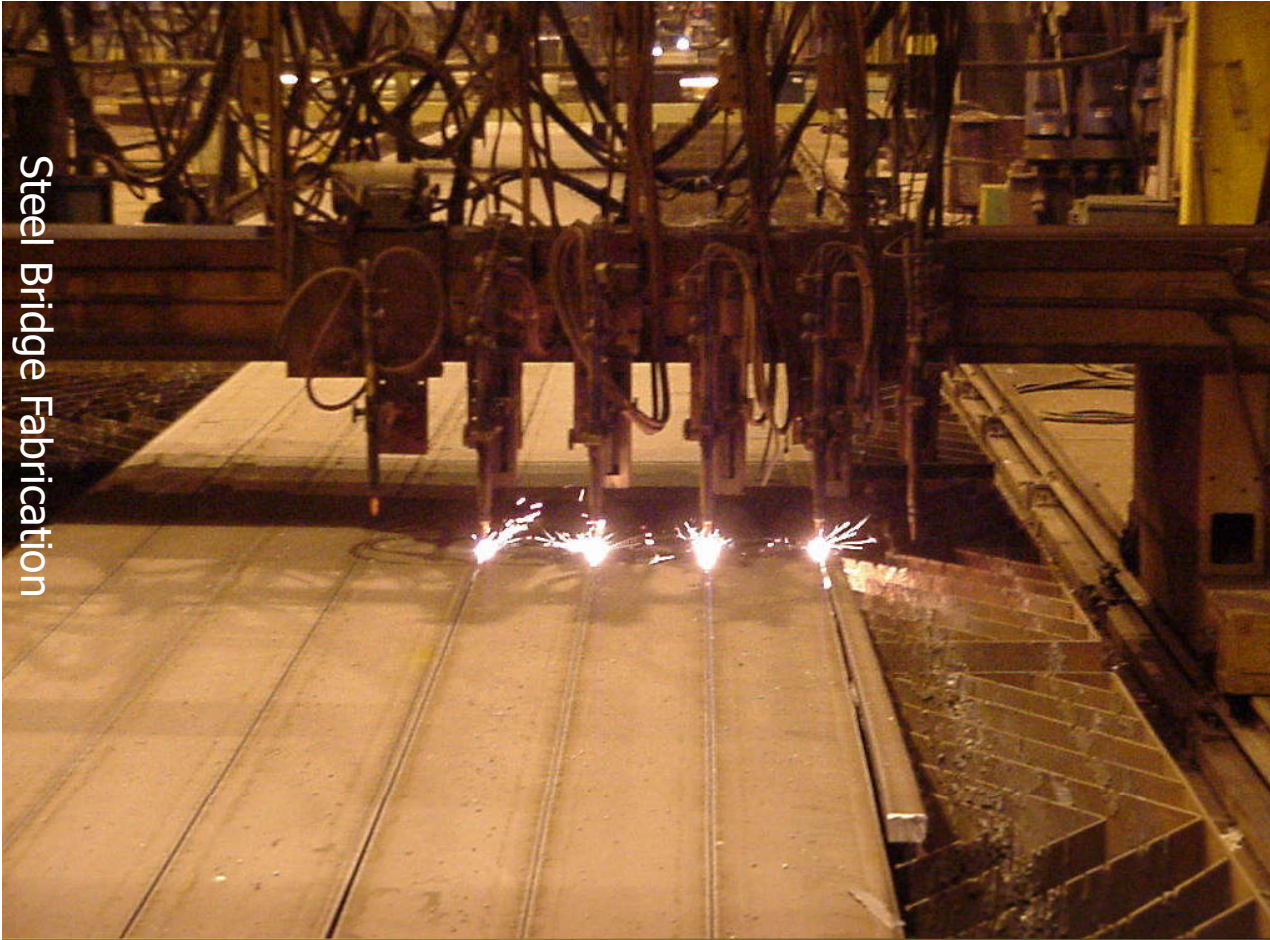
Shop Drawings Primary Continued



Shop Drawings: Secondary

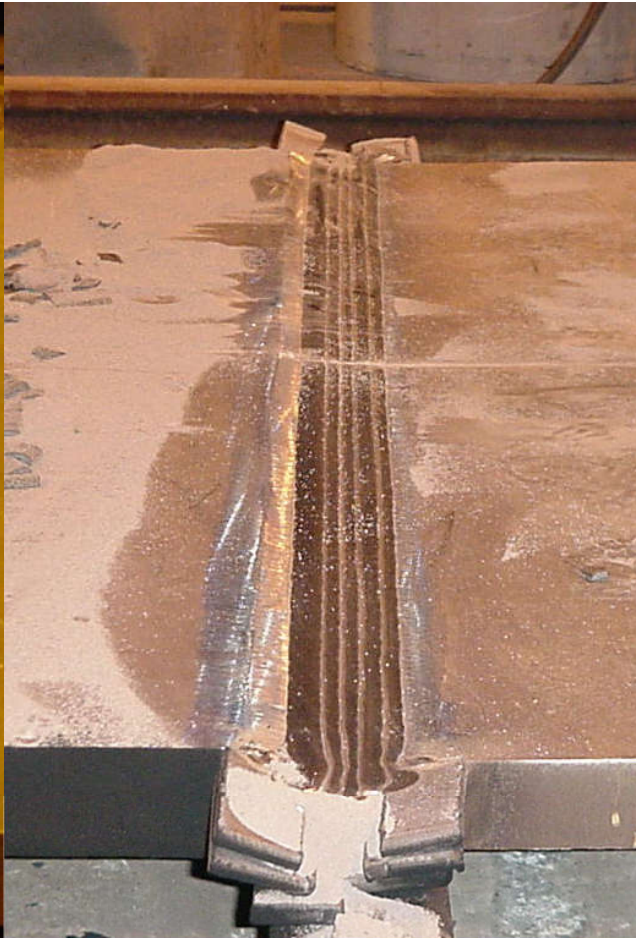


Steel Bridge Fabrication



Burning

Steel Bridge Fabrication

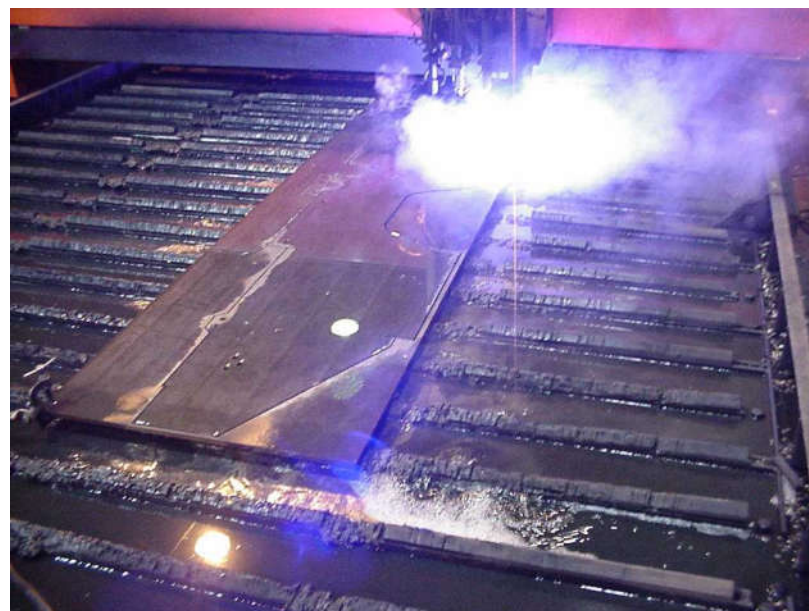
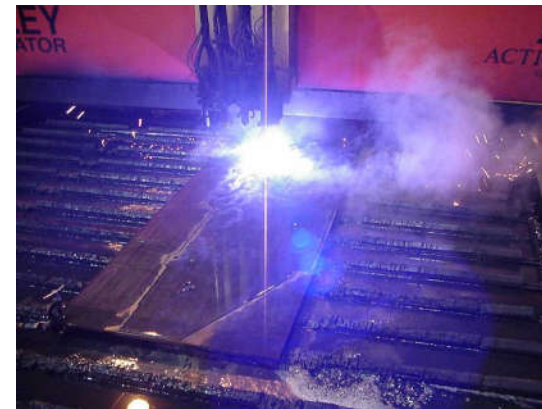


Shop Splicing (Butt Welds)

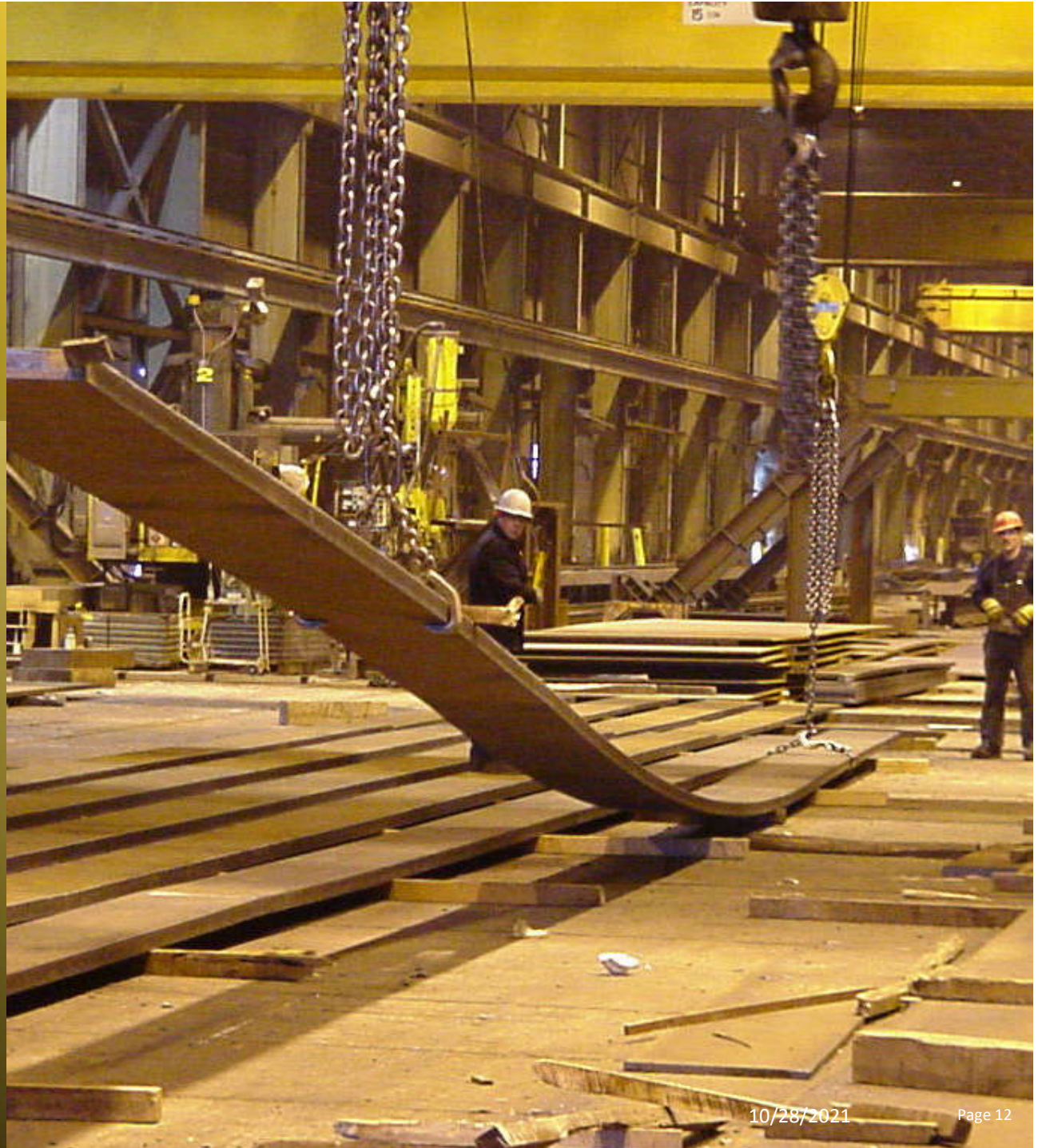
Farley Machine



Farley Con't



Handling

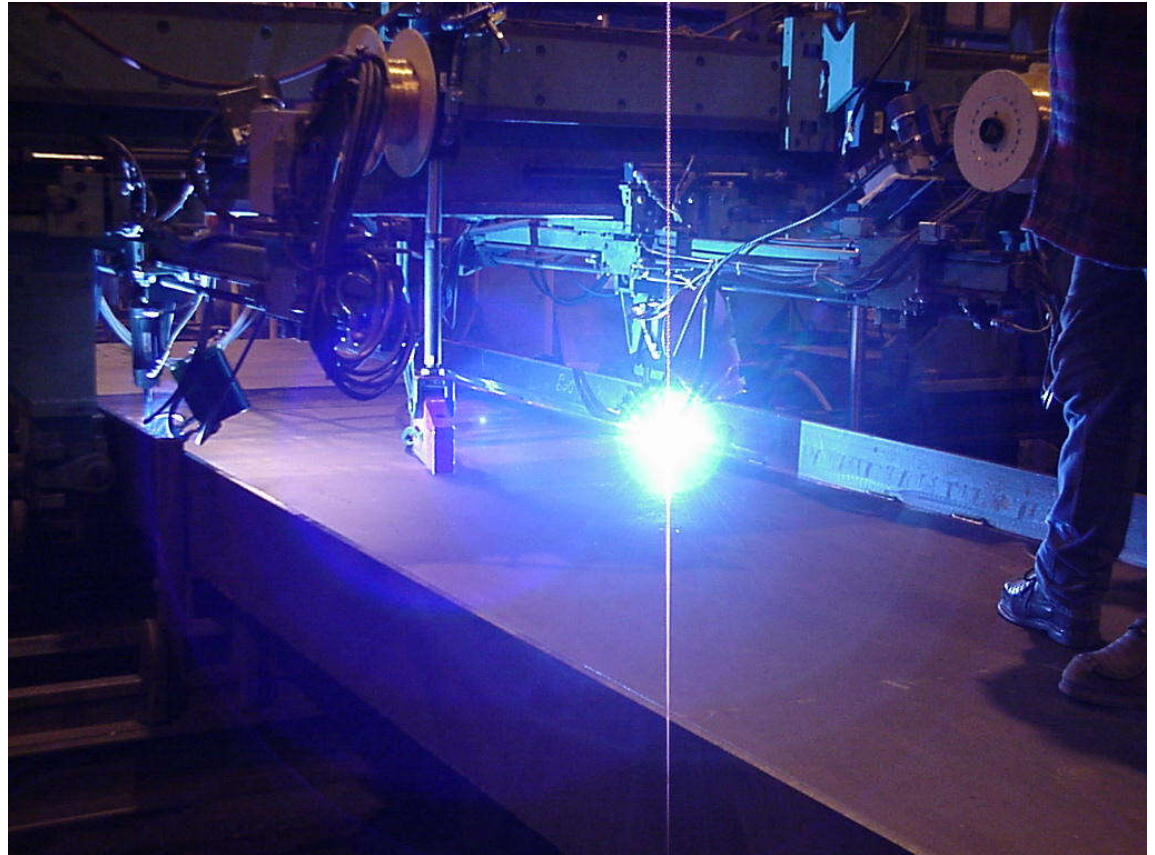


Steel Bridge Fabrication

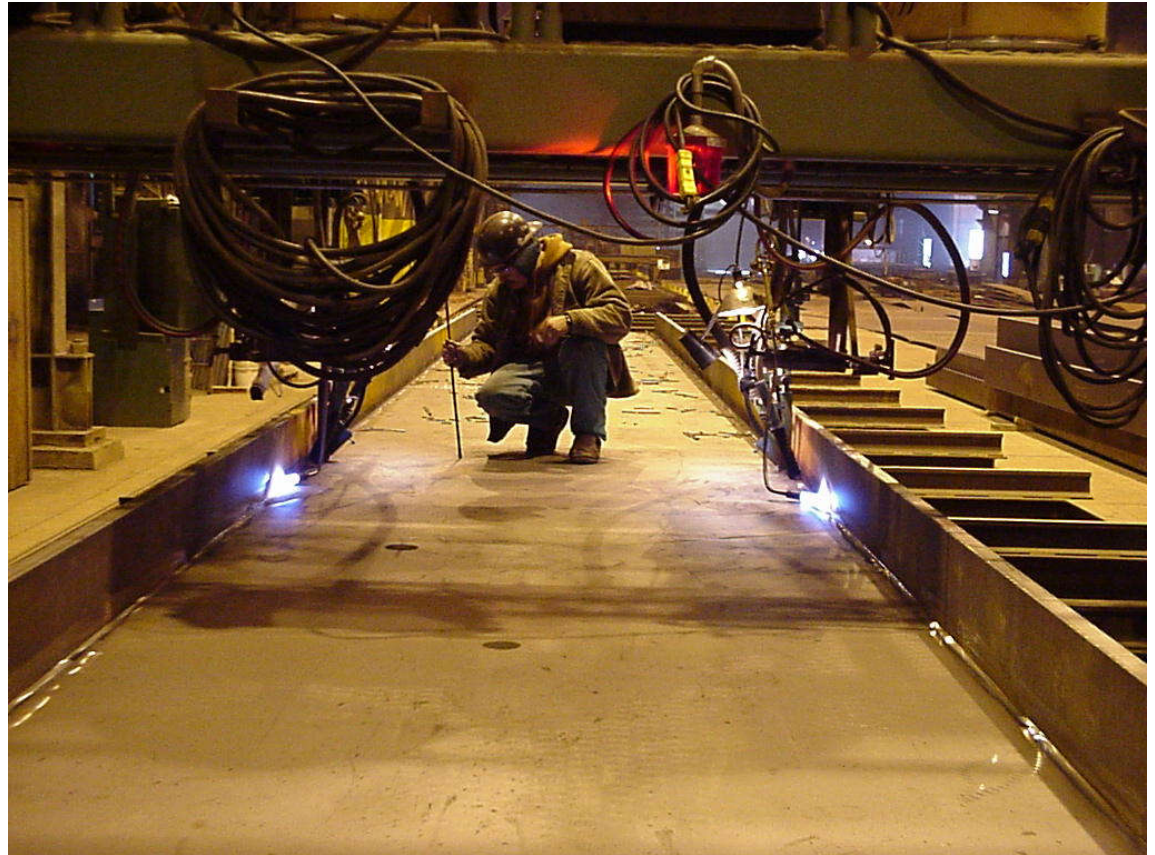


Preparation

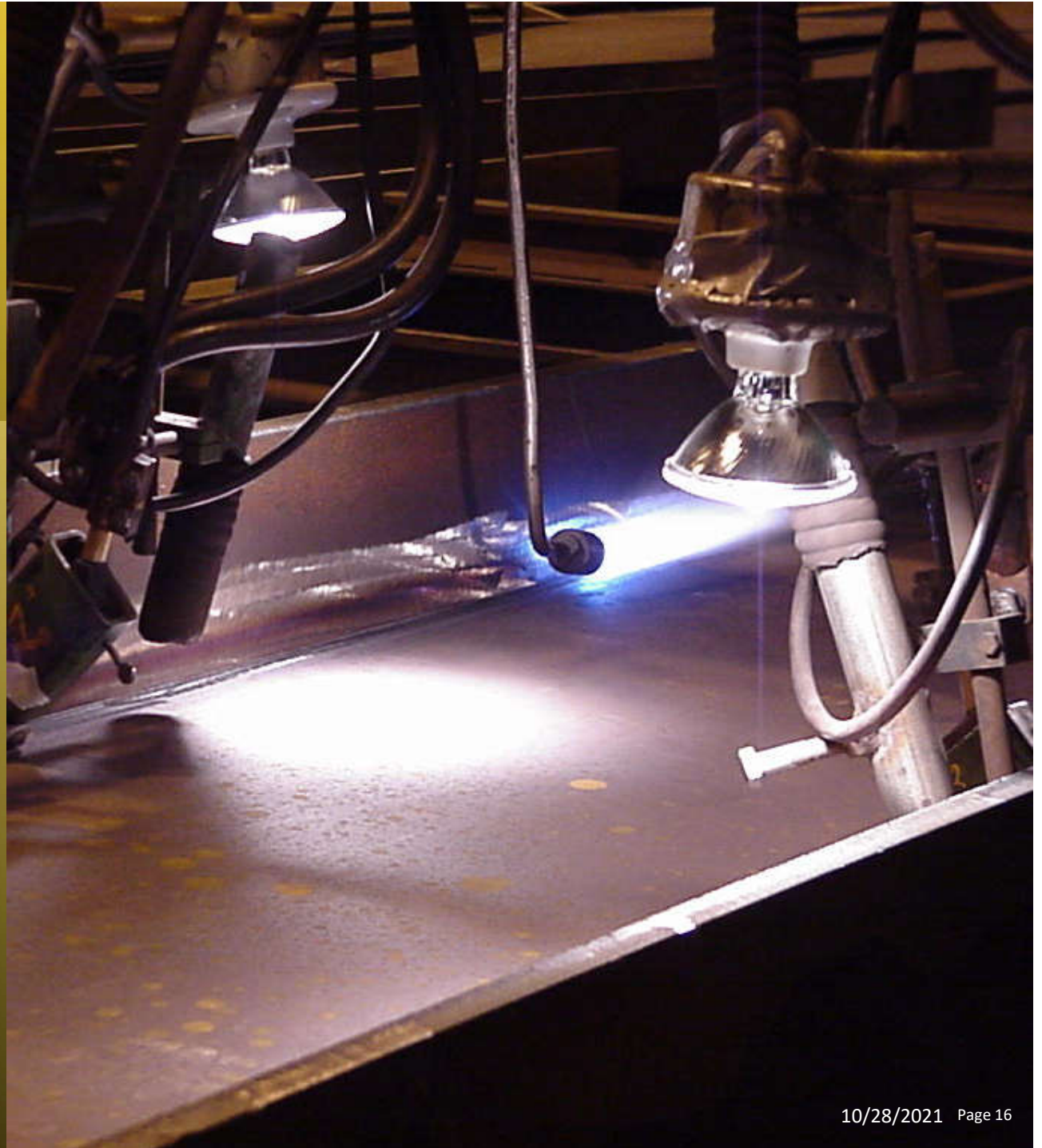
Clamp & Tack



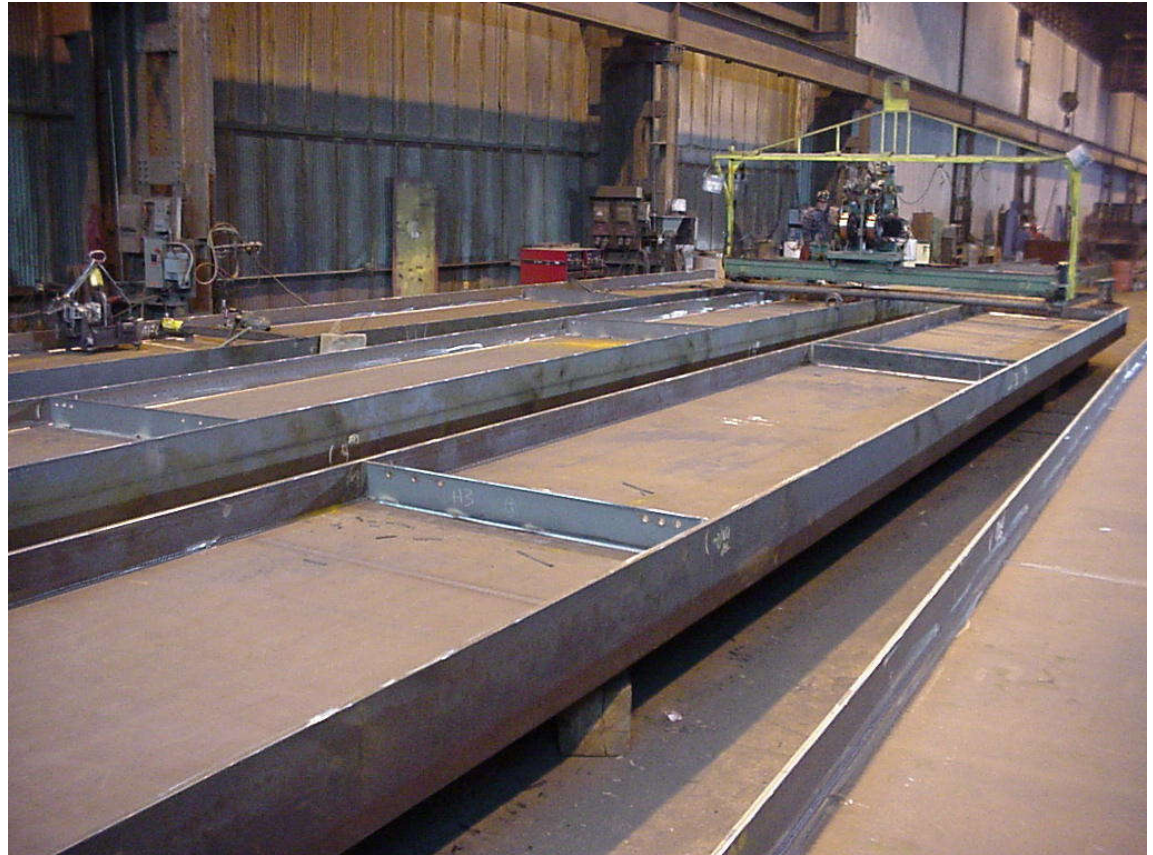
Welding

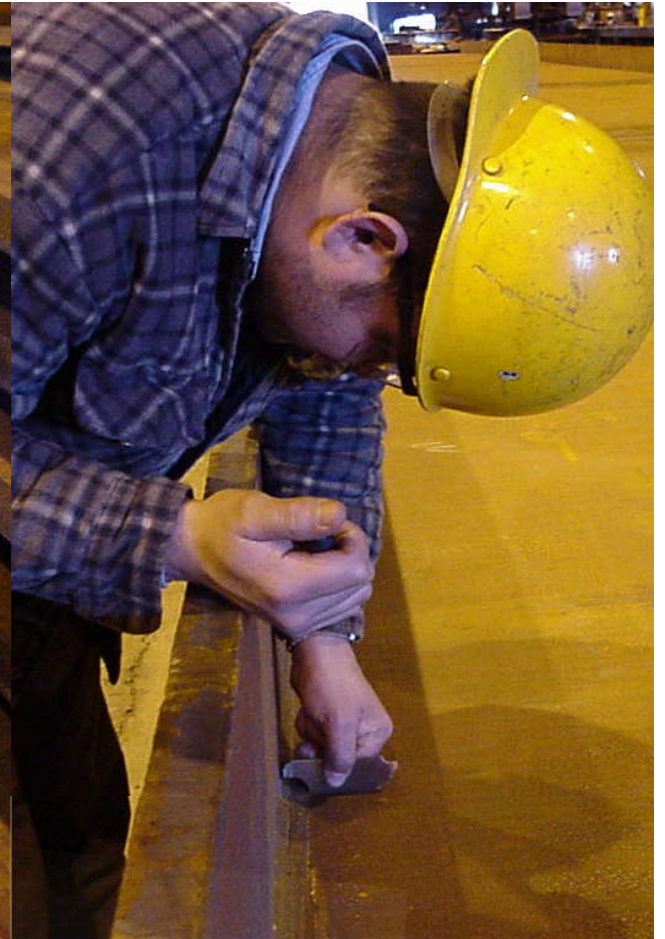


Girder Assembly



Fit & Weld Components





In Process Inspection

Steel Bridge Fabrication



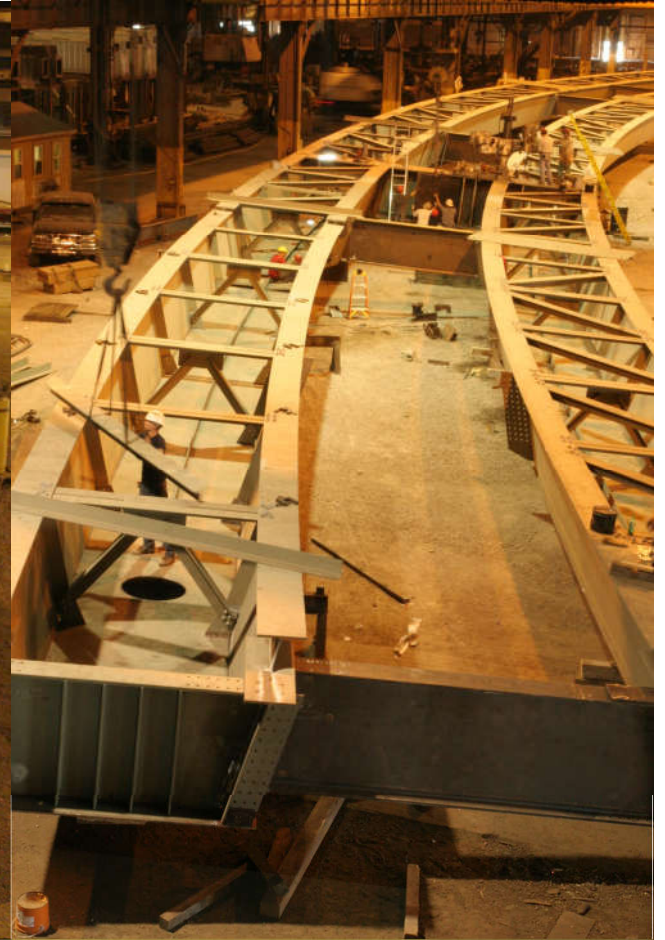
Fit & Weld Con't

Shop Assemblies: Laydown & Stand-up





Laydown Con't



Full Trial Assembly

Cleaning & Painting



Steel Bridge Fabrication



Cleaning & Painting Con't

Final Inspection



Steel Bridge Fabrication

Shipping



Shipping Con't



Barge Shipping



Questions & Answers

