

Preheating operations shall be in accordance with Clause 4 of the BWC, except that the minimum preheat and interpass temperature shall be 250 degrees F. The Contractor's QC CWI shall verify and monitor minimum preheat and interpass

All welds shall be visually inspected and approved by the Contractor's QC CWI.

Weld quality shall meet the requirements of Clause 6.26 of the BWC.

Fillet weld toe undercut shall not exceed 0.010 inches on the floorbeam flange and ¹₃₂ inches on the stiffener.

Non-Destructive Testing (NDT) of Welds:

After visual inspection and approval by the Contractor's QC CWI, all welds shall be 100% inspected by Magnetic Particle Testing (MT). Personnel performing the MT and testing procedures shall be in accordance with Clause 6 of the BWC.

The Contractor's QC CWI shall verify qualifications of the NDT personnel, witness all MT testing and countersign all MT reports. Copies of completed MT reports shall be provided to the Engineer.

Costs for NDT shall be borne by the Contractor and included in the various items of work. No separate payment will be made for NDT.

Quality Control (QC) Inspection:

All phases of the work including cleaning, welding and testing shall be witnessed, inspected and approved by an inspector who is qualified as a Certified Welding Inspector (CWI) by the American Welding Society. Reference Clause 6 of the BWC.

The CWI shall be employed/engaged by the Contractor and costs will be included with the various items of work. No separate payment will be made for inspection costs. Scheduling of QC CWI inspection is the Contractor's responsibility.

Should the Contractor elect to perform work in multiple locations on the structure, a sufficient number of CWI's shall be made available to provide inspection at each work site location. The number of inspectors assigned and work locations shall be approved by the Engineer.

The Contractor's QC CWI shall prepare daily reports, suitable to the Engineer, which document the work inspected and welds approved.

Field Welding of Stiffeners shall be paid for at the contract unit price per each which shall include the required field welding on both sides of an individual bearing stiffener. The contract unit price per each shall include all materials, equipment and labor required for surface preparation, welding, follow-up painting, welder qualification testing, and quality control inspection, including non-destructive testing.

MECHANICAL TREATMENT OF WELD NOTES:

Mechanical treatment of welds shall be performed as specified in the Special Provision "Mechanical Treatment of Steel Welds."

Mechanical Treatment of Steel Welds shall be paid for at the contract unit price per each location. Each location shall include treatment of the new field welds on both sides of an individual bearing stiffener, treatment of the existing vertical welds on both sides of an individual bearing stiffener, and treatment of the existing horizontal weld between the top flange and web of the floorbeam.

BILL OF MATERIAL

	Unit	Total
ment	Each	828
Stiffeners	Each	828

FIELD WELDING OF STIFFENERS I-80 OVER MISSISSIPPI RIVER STRUCTURE NO. 081-0011

0. 33	F.A.I. RTE.	C	ION			COUNTY		TOTAL SHEETS	SHEET NO.			
	80	0			(81-1B)M-4				ROCK	ISLAND	75	60
s	SN 081-0011						CONTRACT NO. 64F31					
	FED. F	ROAD	DIST.	NO.	7	ILLINOI	S	FED. A	ID PROJ	ECT		