

Si/1072/0	BOWMAN, BARRETT & ASSOCIATES INC. CONSULTING ENGINEERS Chicago, Illinois 312.228.0100 www.bbandainc.com	USER NAME = PLOT SCALE = PLOT DATE = 03/29/2013	DESIGNED - IYL CHECKED - BAK DRAWN - MTR CHECKED - IYL	REVISED - REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURAL STEEL STRUCTURE NO. O SHEET NO. S-23 OF S-6
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Notes:

- 1. All members of cross frames shall be AASHTO M 270 Grade 50 and shall conform to the Impact Testing Requirement, Zone 2.
- 2. See Sheet S-21 for cross frame locations.
- **3.** All cross frames between girders shall be installed with erection pins and bolts in accordance with the erection plan approved by the Engineer. Individual cross frames at supports may be temporarily disconnected to install bearing anchor rods.
- Each hole for all cross-frame connection bolts shall be ¹⁵₁₆ " φ unless noted otherwise.
- 5. Two hardened washers are required for each set of holes.
- 6. For Sections A-A & B-B, see Sheet S-24.
- The Contractor may submit an alternate stage construction sequence for End Cross Frame D3. Any alternate sequence must be approved by the Engineer prior to ordering any material.
- 8. The Contractor shall either:
 - Ream cross frame connection holes during shop a. assembly, or
 - Provide detailing and fabrication controls acceptable b. to the Engineer which ensures accuracy such that
 - field reaming will not exceed the amount permitted in Article 505.08(I) of the Standard Specifications.

L DETAILS II		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
016–2471	94	2012-059-BR	СООК	631	516		
010-24/1			CONTRAC	T NO. 6	50J12		
S-63 SHEETS		ILLINOIS FED. AID PROJECT					