



\* Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Note:  
For Reinforcement Bar Details see sheet 6 of 15.

\*\*\* 2"  $\phi$  Conduit at East Curb only. Care shall be taken not to damage existing utility conduits. Any damage to the conduits shall be repaired at the Contractor's expense.

**BILL OF MATERIAL FOR ONE RELIEF JOINT**

Bar	No.	Size	Length	Shape
a(E)	16	#5	31'-3"	—
a1(E)	32	#5	18'-6"	—
a2(E)	32	#5	5'-0"	—
b(E)	136	#5	2'-10"	—
s(E)	16	#5	7'-11"	—
s1(E)	16	#5	4'-3"	—
s2(E)	8	#6	7'-5"	—
s3(E)	8	#6	6'-7"	—
Concrete Removal			Cu. Yd.	15.2
Concrete Superstructure			Cu. Yd.	15.6
Bar Splicers			Each	32
Reinforcement Bars, Epoxy Coated			Pounds	2080

DESIGNED ATH  
 CHECKED SMR  
 DRAWN Kyle M. Steffen  
 CHECKED ATH SMR

EXAMINED Timothy A. [Signature]  
 ACTING ENGINEER OF STRUCTURAL SERVICES

PASSED [Signature]  
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE MARCH 14, 2013

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

RELIEF JOINT REMOVAL & REPLACEMENT DETAILS  
 SN 064-0035

F.A.T. RTE. 24  
 SECTION BSMART 2013-1  
 COUNTY MASSAC  
 TOTAL SHEETS 23  
 SHEET NO. 15  
 CONTRACT NO. 78293  
 ILLINOIS FED. AID PROJECT