

Notes:  
 All field drilled holes shall be coated with an approved zinc rich paint before erection.  
 Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.  
 Steel Bridge Rail expansion joint shall be provided between any two (2) posts which span a bridge expansion joint. Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow railing movement.  
 Provide one 1/8" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.  
 All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.  
 See Sheet 1 of 6 for rail post spacing.

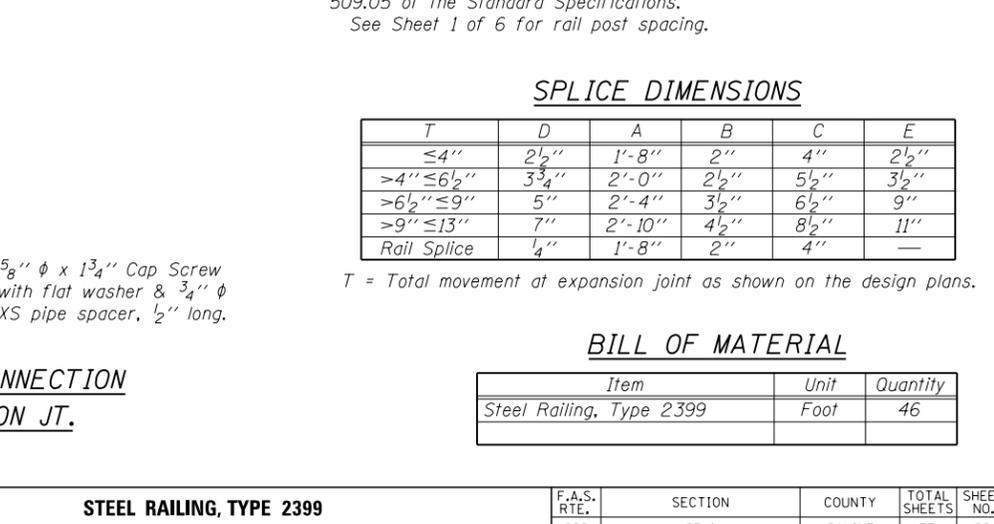
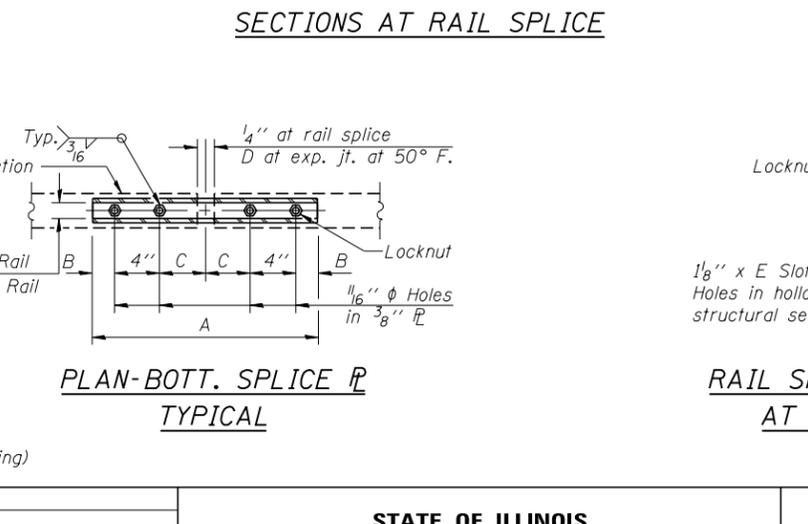
**SPLICE DIMENSIONS**

T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	4"	1'-8"	2"	4"	—

T = Total movement at expansion joint as shown on the design plans.

**BILL OF MATERIAL**

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	46



FILE NAME = ...  
 PROJECT NO. 08055-24

**Coombe-Bloxdorf P.C.**  
 CIVIL ENGINEERS  
 STRUCTURAL ENGINEERS  
 LAND SURVEYORS  
 Design Firm License No. 184-002703

USER NAME = *USER*	DESIGNED - CME	REVISIONS
CHECKED - MCB	REVISIONS	
DRAWN - MML	REVISIONS	
CHECKED - MCB	REVISIONS	

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**STEEL RAILING, TYPE 2399**  
**STRUCTURE NO. 083-2022**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
899	8B-1	SALINE	33	22

CONTRACT NO. 78268  
 ILLINOIS FED. AID PROJECT

SHEET NO. 5 OF 6 SHEETS