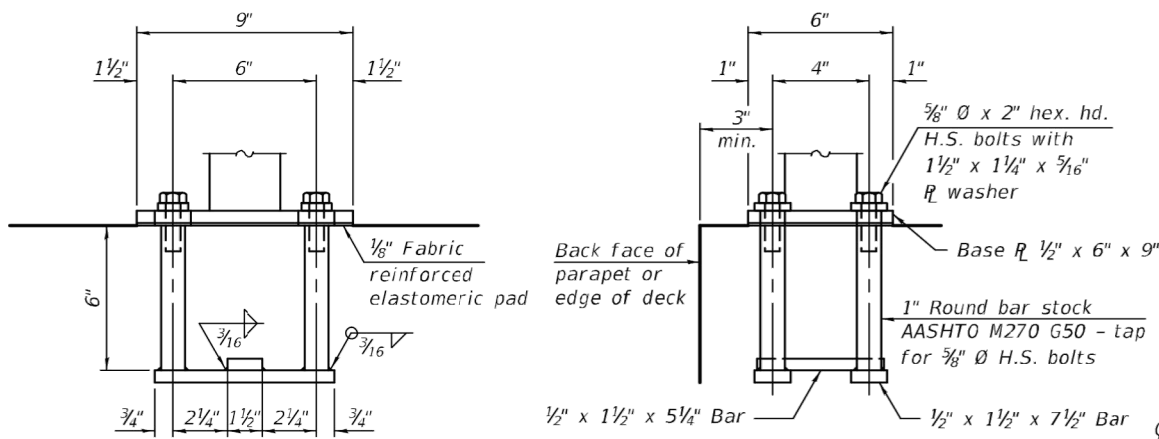


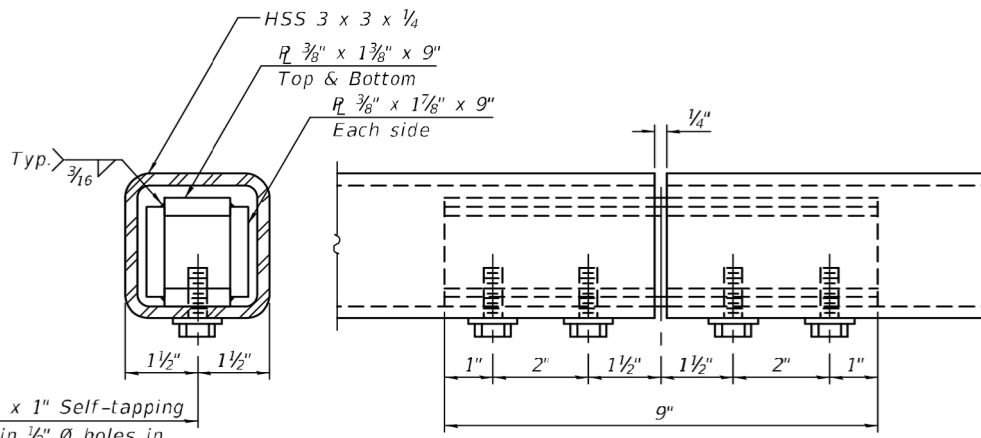
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOT. SHTS.
N/A	21-00163-00-BT	WILLIAMSON	82	156
ILLINOIS		CRAB ORCHARD GREENWAY		

CONTRACT NO. 99700



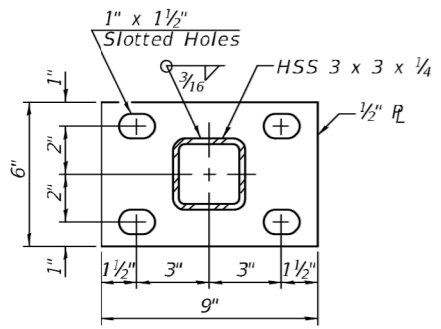
**ANCHORAGE ASSEMBLY**

The Bicycle Railing fasteners for end posts near expansion joints may need to be installed prior to installing the bent plates. In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" Ø fully threaded anchor rods with the same plate washers as specified above and heavy hex lock nuts according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

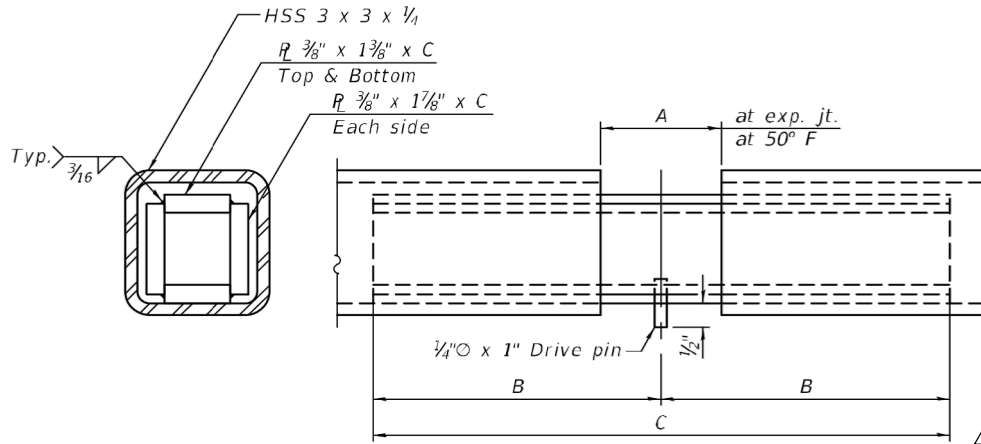


**MATERIAL SPLICE**

Notes:  
 Place reinforcement bars to miss anchor rod locations. CVN testing is not required for the HSS tubing used in the Bicycle Railing.  
 All HSS tubing used for the Parapet Railing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.  
 All HSS tubing used for the Parapet Railing shall be ASTM A500 grade C.  
 All base plates used for the Parapet Railing shall be AASHTO M270 grade 50.  
 All heavy hex nuts shall be according to ASTM A 563 grade DH.  
 All fully threaded anchor rods shall be ASTM F1554 grade 105.  
 The post base plate shall be fastened to the curb snug tight and given an additional 1/8" turn.  
 Rail splice inserts may be built out of bent plates of the same thicknesses and outside geometry limits as the 4 plate rail splice inserts shown.  
 When the contract specifies a galvanized railing, all steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications. When the contract specifies a painted railing, all posts, rail, splices, anchor devices and plates of the railing shall be painted according to the paint system for railings as specified in the General Notes.  
 See sheet \_ of \_ for dimensions of concrete openings at expansion joints.

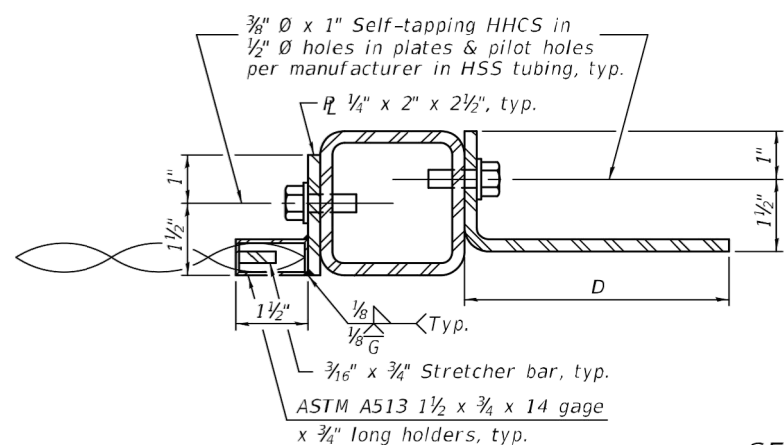


**SECTION B-B**

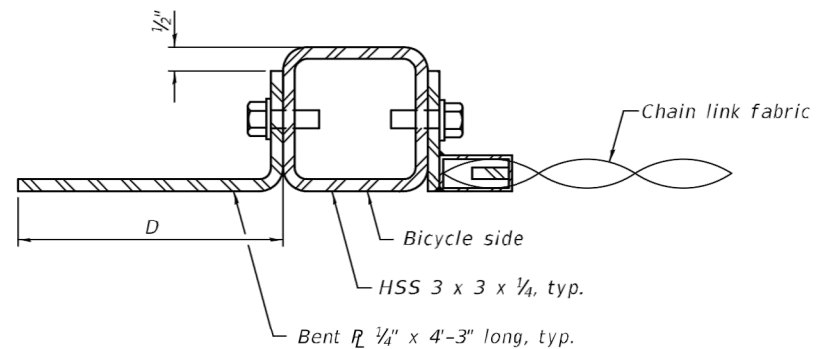


**EXPANSION SPLICE**

**NOTE:** The Organic Zinc Rich Primer/Epoxy/Urethane paint system shall be used for painting the railing. The entire system shall be shop applied. The color of the final finish coat shall be Munsell Black N 1.



**SECTION A-A**



**TABLE OF DIMENSIONS**

Location	T	A	B	C	D	E
Over Strip Seal Jt.	≤4"	2 1/2"	1'-2"	2'-4"	7 1/4"	7"
Over Finger or Modular Jt.	≤9 1/2"	5 1/2"	1'-7 3/4"	3'-3 1/2"		
Over Finger or Modular Jt.	≤15"	8 1/4"	2'-1 1/4"	4'-2 1/2"		

T = ; total movement based on total temperature range from -20°F to 120°F along centerline of roadway at expansion joint.

**BILL OF MATERIAL**

Item	Unit	Quantity
Bicycle Railing	Foot	26'
Parapet Railing	Foot	—

R-29 9-1-2022

STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515

REVISIONS

DATE	NO.
06/08/2023	1

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 Marion, Illinois 62959  
 Phone - (618)993-6411, Fax - (618)993-6750

**DETAILS - SIDEWALK RAILING**  
**CRAB ORCHARD GREENWAY**  
**WILLIAMSON COUNTY, ILLINOIS**

Date FEB. 2023 DR. By CWB CK'D By CWB  
 Scale N.T.S. Job No. 21157 Sheet No. 82 of 156

P:\21157 - CRAB ORCHARD GREENWAY Drawings - Plans\21157 - 09 - DETAILS - RETAINING WALL, BIKE GATE, & MSC. DETAILS.dwg 3-29-23 03:12:22 PM mlkumrney