



Notes:  
 All field drilled holes shall be coated with an approved zinc rich paint before erection.  
 For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.  
 Steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.  
 \*\* The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.  
 Cost of removal and disposal of existing steel railing is paid for at the contract unit price per Foot. The contractor must ensure that no damage is done to the anchor device embedded in the PPC deck beam that will be reused.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	146

(6'-3" Maximum Post Spacing) (5" minimum to 7 1/2" maximum CWS thickness)

\* Threaded areas shall be plugged or blocked off during concrete placement. Galvanized after fabrication.