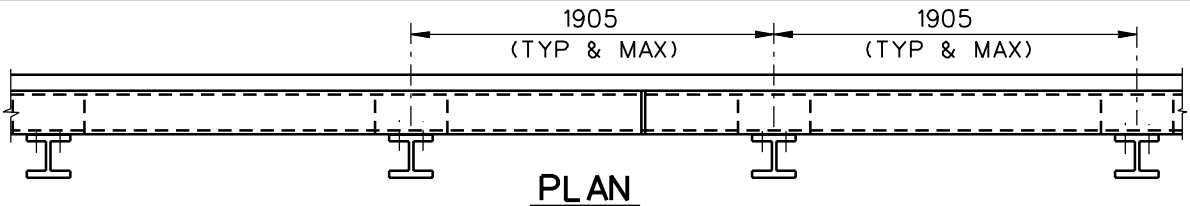
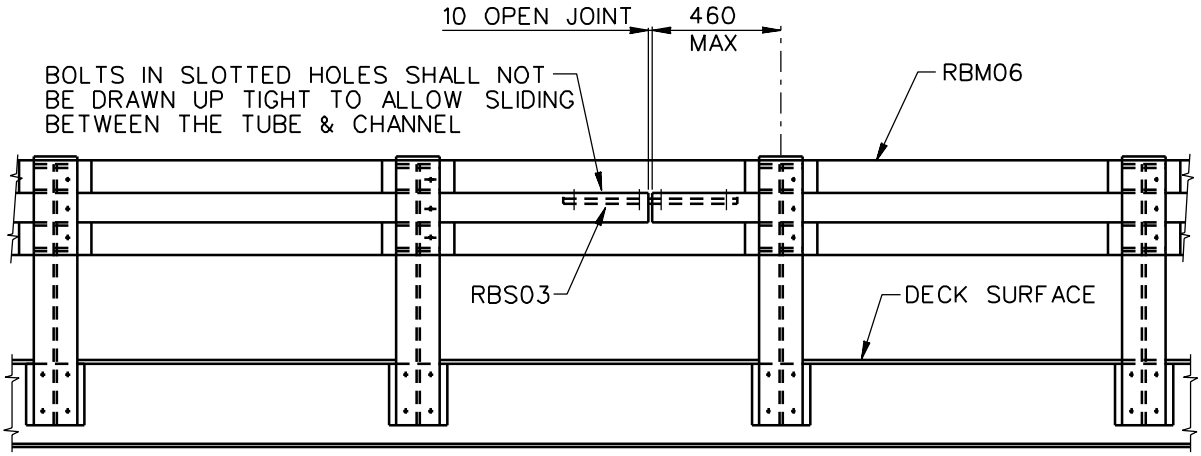
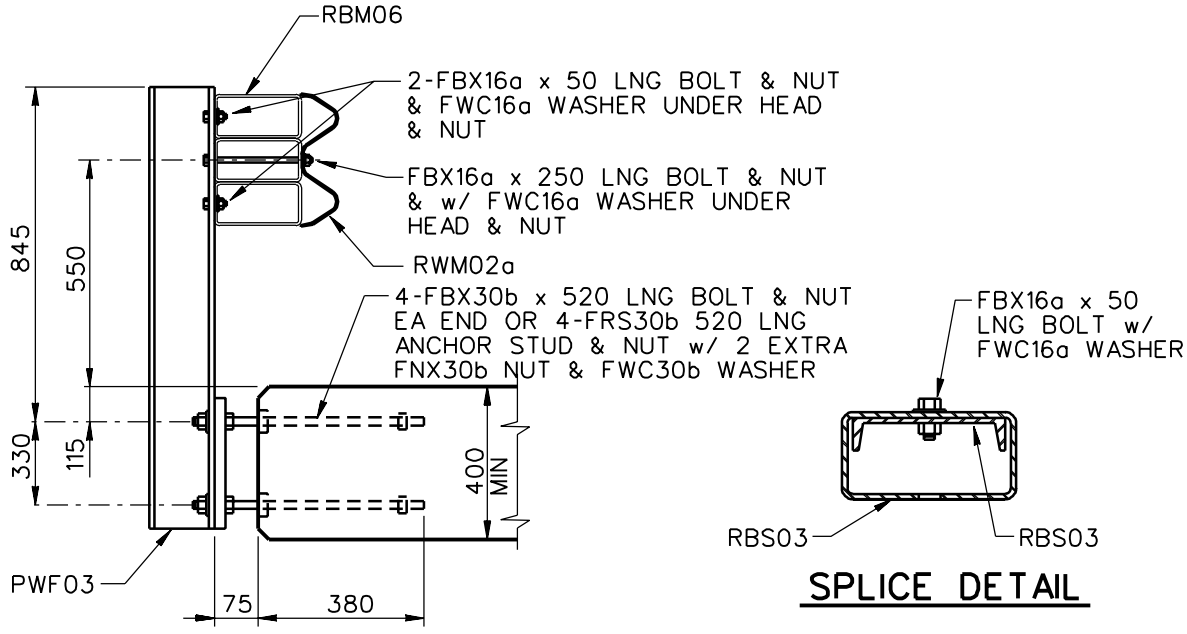


PLAN



ELEVATION



SECTION

SPLICE DETAIL

SIDE-MOUNTED RECTANGULAR TUBE BRIDGE RAILING

SBB03a

SHEET NO.	REF. NO.
1 of 2	

INTENDED USE

This side-mounted steel post-and-beam system is a general purpose AASHTO Performance Level one bridge railing also known as the Ohio box-beam bridge rail. This system was number 8 in the 1986 FHWA Memorandum on crash-tested bridge railings.

This drawing and specification address only the bridge railing and not the design or detailing of the bridge deck. Only reinforcement directly related to the bridge rail is shown. Bridge decks should be designed to develop the full strength of the bridge railing.

COMPONENTS

Unit Length = 3800

	Designator	Component	Number
	FBB01	Guardrail splice bolt and nut	8
	FBX16a	Bolt (50 mm) and nut	4
	FBX16a	Splice bolt (50 mm)	4
	FBX16a	Bolt (250 mm) and nut	2
	FBX30b	High-strength anchor bolt (520 mm) and nut	8
or	FRS30b	High-strength anchor studs (520 mm) and nut	8
	FNX30b	Anchor-bolt nut	16
	FWC16a	Plain round washer	16
	FWC30b	Hardened steel washer	16
	PWF03	Side-mounted post	2
	RBM06	Rectangular tube rail	1
	RBS03	Box beam splice	1
	RWM02a	W-beam rail	1

REFERENCES

R.D. Morgan, *Bridge Rails*, Memorandum to Regional FHWA Administrators, Federal Highway Administration, Washington, D.C., August 28, 1986.

M.E. Bronstad, J.D. Michie, L.R. Calcote, K.L. Hancock, and J.B. Mayer. Bridge Rail Designs and Performance Standards, Federal Highway Administration, FHWA-RD-87-049, Washington, D.C., 1987.

SIDE-MOUNTED RECTANGULAR TUBE BRIDGE RAILING

SBB03a

SHEET NO.	DATE
2 of 2	03-05-06