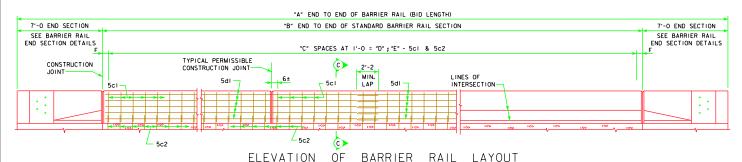
TABLE OF BARRIER RAIL DIMENSIONS AND NUMBERS																																
BRI	DGE I	LENGTH	160′-0				180'-0				200′-0				220′-0				240'-0				260′-0									
	SKE	:w	0°	10°	20°	30°	45°	0°	10°	20°	30°	45°	0°	10°	20°	30°	45°	0°	10°	20°	30°	45°	0°	10°	20°	30°	45°	0°	10°	20°	30°	45°
DIMENSION OR NUMBER	Α	(FT-IN)	177′-0	177'-05	177′-24	177′-52	178'-28	197′-0	197′-0	197′-24	197′-51	198′-28	217′-0	217'-05	217'-24	217'-51	218'-27	237′-0	237′-0	237′-24	237′-52	238′-28	257′-0	257′-0	257′-24	257′-5¦	258′-27	277′-0	277'-08	277′-24	277′-5¦	278′-27
	a≝ B	(FT-IN)	163'-0	163′-0§	163′-24	163′-5½	164'-27	183'-0	183′-05	183′-24	183′-51	184'-27	203'-0	203′-05	203′-24	203′-52	204′-27	223'-0	223′-05	223′-24	223′-5½	224′-27	243′-0	243′-08	243′-24	243′-52	244′-27	263'-0	263'-05	263′-24	263′-52	264'-27
	MAG.	С	162	162	162	162	163	182	182	182	182	183	202	202	202	202	203	222	222	222	222	223	242	242	242	242	243	262	262	262	262	263
	≓ D	(FT-IN)	162'-0	162'-0	162′-0	162'-0	163′-0	182′-0	182'-0	182'-0	182'-0	183′-0	202'-0	202′-0	202′-0	202'-0	203′-0	222'-0	222'-0	222′-0	222′-0	223′-0	242′-0	242'-0	242'-0	242'-0	243′-0	262'-0	262'-0	262'-0	262'-0	263′-0
	6	Ε	163	163	163	163	164	183	183	183	183	184	203	203	203	203	204	223	223	223	223	224	243	243	243	243	244	263	263	263	263	264
	F	(IN)	6	65	7 g	8 4	7 7 16	6	6 16	7 8	84	7 7 16	6	6 %	7 🖁	83	7 7 16	6	65	7 🖁	83	7 ⁷ 16	6	65	7 8	8 4	7 ⁷ 16	6	65	7 🖁	83	77

		TAE	3LE	OF E	BARR	IER	RAIL	. DII	MENS	IONS	S AN	D NL	JMBE	RS ·	- CO	NT.		
BRID	GE	LENGTH			280′-0					300'-0			320′-0					
	SI	KE W	0°	10°	20°	30°	45°	0°	10°	20°	30°	45°	0°	10°	20°	30°	45°	
	4	(FT-IN)	297′-0	297′-0	297′-24	297′-5¦	298′-27	317′-0	317'-05	317'-24	317′-52	318'-27	337′-0	337′-05	337′-24	337′-52	338′-28	
z ű	E	3 (FT-IN)	283′-0	283′-05	283′-24	283′-5½	284′-27	303′-0	303′-08	303′-24	303′-52	304′-27	323′-0	323′-0	323′-24	323′-52	324′-27	
DIMENSION OR NUMBER	E	С	282	282	282	282	283	302	302	302	302	303	322	322	322	322	323	
ΨŽ	C	(FT-IN)	282'-0	282′-0	282'-0	282'-0	283′-0	302′-0	302′-0	302′-0	302′-0	303′-0	322′-0	322′-0	322'-0	322'-0	323′-0	
2 8	L	Ε	283	283	283	283	284	303	303	303	303	304	323	323	323	323	324	
	ſ	F (IN)	6	6 %	7 ¦	83	77	6	6 16	7 å	83	77	6	6 6	7 g	83	7 7 16	

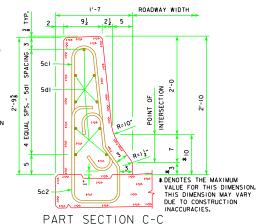


I. MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR IS TO BE 2" UNLESS OTHERWISE NOTED OR SHOWN.

BARRIER RAIL NOTES:

- 2. THE PERMISSIBLE CONSTRUCTION JOINTS ARE TO BE PLACED BETWEEN VERTICAL BARS AT A MINIMUM SPACING OF 20 FEET. CONSTRUCTION JOINT CONTACT SURFACES ARE TO BE COATED WITH AN APPROVED BOND BREAKER.
- COST OF THE JOINT SEALER AND BOND BREAKER SHALL BE CONSIDERED INCIDENTAL TO OTHER CONSTRUCTION.
- 4. ALL BARRIER RAIL REINFORCING STEEL IS TO BE EPOXY
- 5. THE CONCRETE BARRIER RAIL IS TO BE BID ON A LINEAL FOOT BASIS. THE NUMBER OF LINEAL FEET OF BARRIER RAIL INSTALLED WILL BE PAID FOR AT THE CONTRACT PRICE PER LINEAL FOOT BASED ON PLAN QUANTITIES. PRICE BID FOR CONCRETE BARRIER RAILING SHALL BE FULL COMPENSATION FOR FURNISHING ALL MATERIAL, EXCLUDING REINFORCING STEEL, AND ALL OF THE EQUIPMENT AND LABOR REQUIRED TO ERECT THE RAIL IN ACCORDANCE WITH THESE PLANS AND CURRENT SPECIFICATIONS. IF CONDUIT IS REQUIRED IN THIS PLAN THE RIGID STEEL CONDUIT, JUNCTION BOXES AND FITTINGS INCLUDING LABOR AND ANY ADDITIONAL WORK TO DO THE INSTALLATION IS CONSIDERED INCIDENTAL TO THE COST

- BARRIER RAIL NOTES CONT .:
- 6. ALL BARRIER RAIL REINFORCING STEEL IS TO BE INCLUDED WITH THE SUPERSTRUCTURE REINFORCING STEEL.
- 7. THE JOINT SEALER SHALL BE LIGHT GRAY NONSAG LATEX CAULKING SEALER MARKETED FOR OUTDOOR USE. NO TESTING OR CERTIFICATION IS REQUIRED.
- 8. TOP OF THE BARRIER RAIL IS TO BE PARALLEL TO THE THEORETICAL & GRADE.
- 9. CROSS SECTIONAL AREA OF THE STANDARD SECTION OF THE BARRIER RAIL = 2.84 SQUARE FEET.
- 10. CONCRETE BARRIER RAILS PLACED USING THE SLIPFORM METHOD WILL REQUIRE THE USE OF A CLASS BR CONCRETE IN ACCORDANCE WITH ARTICLE 2513.03A OF THE STANDARD SPECIFICATION, CAST-IN-PLACE BARRIER RAILS SHALL USE CLASS C MIX. CLASS D CONCRETE IS NOT PERMITTED FOR CONCRETE BARRIER RAILS (CAST-IN-PLACE OR SLIPFORMED METHOD).



Jan B Sign LATEST REVISION × BRID Mormen L. 1 APPROVED BY

I" MIN. (TYPICAL)

> JOINT SEALER ON TOP AND SIDES ROND

BREAKING COATING

PART PLAN VIEW

PART ELEVATION VIEW

BARRIER RAIL JOINT DETAILS

HATCHED AREA INDICATES AREA
OF BOND BREAKING

Iowa Department of Transportation

STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES ROLLED STEEL BEAM BRIDGES

Highway Division

JUNE, 2010

BARRIER RAIL DETAILS SHEET I

RS40-087-10