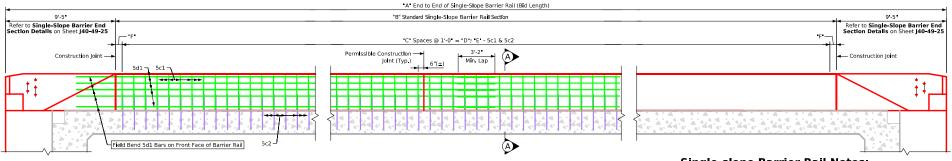
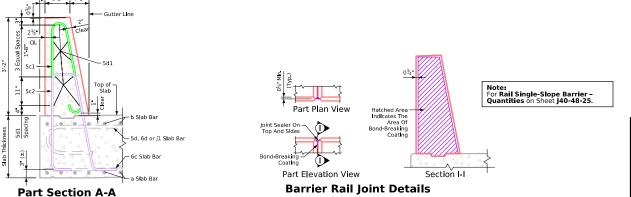
Table of Single-Slope Barrier Rail Dimensions and Numbers																																					
Bri	ge Length	70'-0				80'-0				90'-0				100'-0				110'-0			120'-0				130'-0				140'-0				150'-0				
Skew (Degrees)		0	15	30	45	0	15	30	45	0	15	30	45	0	15	30	45	0	15	30	45	0	15	30	45	0	15	30	45	0	15	30	45	0	15	30	45
per	A (ftln.)	81'-0	81-1½	81'-5½	82'-3	91'-0	89'-1½	91 -5½	92'-3	101'-0	101-1½	81'-5½	102 - 3	111'-0	111-114	111'-5½	112-3	121-0	121'-1½	121'-5½	82'-3	131'-0	131'-1K	131'-5½	132'-3	141-0	141'-11/4	141 -51⁄2	142'-3	151'-0	151-11/4	151'-5½	152'-3	161'-0	161'-1K	161'-5⅓	162'-3
Num	B (ftin.)	62'-2	62-3½	62 - 7½	63'-5	72'-2	72'-31/4	72'-71/2	73'-5	82'-2	82'-31/4	82'-7 <b>½</b>	83'-5	92'-2	92-31/4	92-71/2	93'-5	102'-2	102-31/4	102 - 71/2	103'-5	112'-2	112-314	112-7½	113'-5	122'-2	122 -314	122-71/2	123'-5	132'-2	132-314	132-7½	133'-5	142'-2	142-314	142 - 71/2	143'-5
9	С	61	61	62	62	71	71	72	72	81	81	82	82	91	91	92	92	101	101	102	102	111	111	112	112	121	121	122	122	131	131	132	132	141	141	142	142
ensio	D (ftin.)	61'-0	61-0	62'-0	62-0	71'-0	71'-0	72'-0	72'-0	81'-0	81'-0	82'-0	82 -0	91'-0	91-0	92 -0	92-0	101-0	101'-0	102'-0	102'-0	111'-0	111-0	112'-0	112-0	121'-0	121'-0	122-0	122'-0	131-0	131'-0	132'-0	132'-0	141 -0	141-0	142'-0	142'-0
1 5	E	62	62	63	63	72	72	73	73	82	82	83	83	92	92	93	93	102	102	103	103	112	112	113	113	122	122	123	123	132	132	133	133	142	142	143	143
	F (In.)	7	7%	3¾	8⅓	7	7%	3¾	8½	7	7 5/8	3 3/4	81⁄2	7	7%	3¾	8⅓	7	7%	3¾	8⅓	7	7⅓	3¾	81⁄2	7	7%	3¾	81⁄2	7	7%	3¾	8⅓	7	7%	3¾	81⁄2



## **Elevation of Single-Sloped Barrier Rail**



## Single-slope Barrier Rail Notes:

Minimum clear distance from face of concrete to near reinforcing bar is to be 2"

unless otherwise noted or shown.

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.

The concrete single-sloped 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 Rail** shall be full compensation for furnishing all mate 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 of the railing.

The joint sealer shall be light gray nonsag latex caulking sealer marketed for outdoor use. No testing or certification is required.

Top of the barrier rail is to be parallel to the theoretical centerline grade.

Cross sectional area of the standard section of the barrier rail = 3.5 square feet. All Single-sloped barrier rail reinforcing steel is to be either epoxy coated or stainless steel as shown or noted. The stainless steel reinforcing steel shall be

deformed bar Grade 60 meeting the requirements of Materials I.M.452. Concrete Single-sloped barrier rails placed using the slipform method will require

the use of a Class BR concrete in accordance with **Article 2513.03**, **A, 2**, **of the Standard Specification**. Cast-in-place barrier rails shall use **Class C mlx**. Class D concrete is not permitted for concrete single-sloped barrier rails (cast-in-place or



## **IOWA** | **DOT**

Standard Design-40'-0" Roadway, 3 Span Bridge

## **Continuous Concrete Slab Bridge**

July, 2025

Rail Single-Slope Barrier - Details

140-47-25