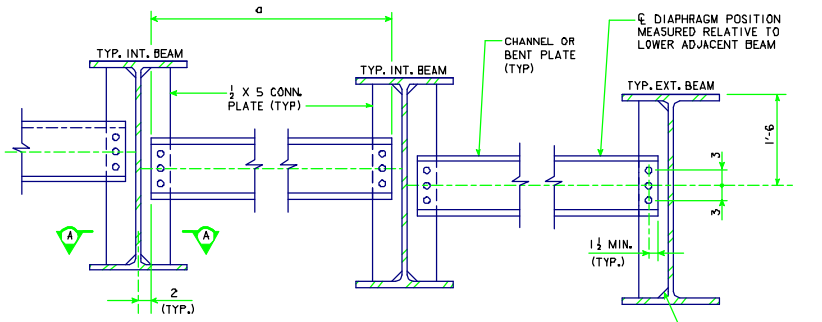
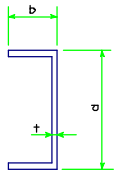


ABUTMENT DIAPHRAGM

(ALONG SKEW)

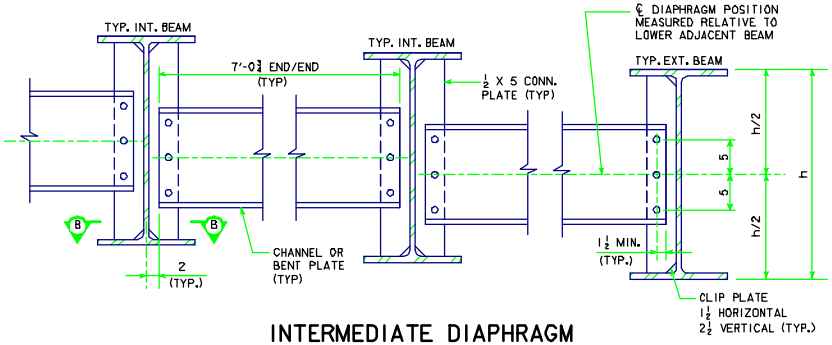
SKEW	a (FT-IN)
0°	7'-0¾
10°	7'-2 1/16
20°	7'-6 3/16
30°	8'-1⅛



BENT PLATE DIAPHRAGM OPTION

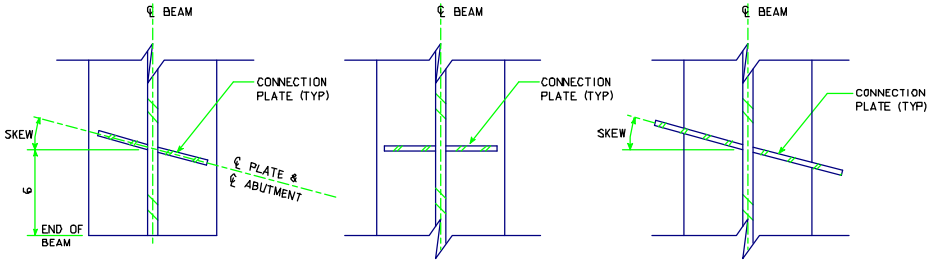
DIAPHRAGM MEMBER OPTIONS

DIAPHRAGM LOCATION	BEAM SIZE	CHANNEL OPTION		BENT PLATE OPTION			
		DESIGNATION	CONN. BOLTS	d (IN)	b (IN)	t (IN)	CONN. BOLTS
INTERMEDIATE	W30 & W33	C15x33.9	3 -⅞"Φ	15	4	⅜	3 -⅞"Φ
INTERMEDIATE	W36 & W40	MC18x42.7	3 -⅞"Φ	18	4	⅜	3 -⅞"Φ
ABUTMENT	ALL	C12x20.7	3 -⅞"Φ	12	4	⅜	3 -⅞"Φ
PIER	W30 OR W33	C15x33.9	12 -⅞"Φ	15	4	⅜	12 -⅞"Φ
PIER	W36 & W40	MC18x42.7	12 -⅞"Φ	18	4	⅜	12 -⅞"Φ



INTERMEDIATE DIAPHRAGM

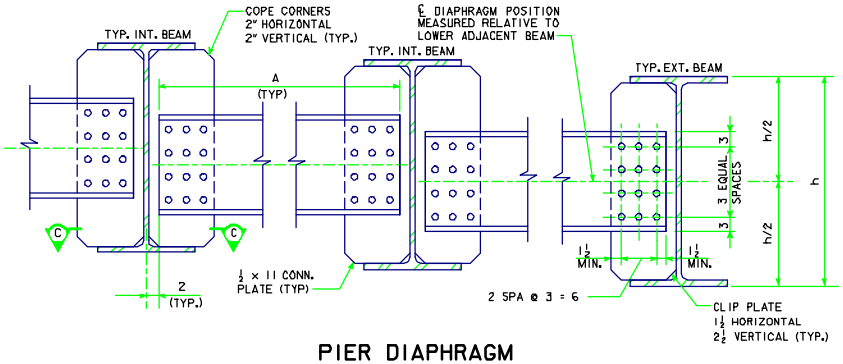
(AT RIGHT ANGLES)



SECTION A-A

SECTION B-B

SECTION C-C



PIER DIAPHRAGM

(ALONG SKEW)

SKEW	A (FT-IN)
0°	7'-0¾
10°	7'-2 1/16
20°	7'-6 3/16
30°	8'-1⅛

NOTES:
1. EITHER CHANNEL OR BENT PLATE DIAPHRAGM OPTION MAY BE SELECTED AT CONTRACTOR'S OPTION.

LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

Iowa Department of Transportation
Highway Division

STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES

ROLLED STEEL BEAM BRIDGES

FEBRUARY, 2004

DIAPHRAGM DETAILS
SHEET 1 OF 2

RS40-SDI-04