

RAMP A

SPAN	GIRDER	SOUTH END DATA			NORTH END DATA			GIRDER DIMENSIONS					WEB PLATE	FLANGE PLATES						SHEAR CONNECTOR SPACINGS				INTERIOR WEB STIFFENER SPACINGS			GIRDER			
		S	ELEVATION	ANGLE	N	ELEVATION	ANGLE	LENGTH % BRGS.	A	B	C	Δ (S) CONCRETE		Δ (N) CONCRETE	1	2	3	4	5	6	CAMBER	a	b	c	d	e		f	g	
A-1	GA-1	6'-11 1/8"	69.47	106°-38'-42"	6'-5 1/16"	66.00	92°-11'-30"	72'-6"	16'-5"	-	41'-8"	.088"	.068"	60x3/8"	14x3/4"	14x3/4"	-	-	14x3/4"	18x3/4"	2 3/8"	1'-3"	12x16"	-	18x24"	2'-8"	3x64"	6x60"	GA-1	
	GA-2	"	69.43	106-42-57	"	67.96	92-17-45	74-2 13/16	"	-	43'-4 13/16	.091	.067	"	"	"	-	-	"	"	2 1/8"	1'-1 7/16	"	-	20x24"	3-7 7/16	"	"	GA-2	
	GA-3	"	69.38	106-48-55	"	67.91	92-23-43	75-11 9/16	"	-	45'-1 9/16	"	"	"	"	"	-	-	"	"	"	"	0-11 13/16	"	-	21x24"	1-11 13/16	4x48	"	GA-3
	GA-4	8'-11 1/8"	69.35	106-54-37	"	67.85	92-29-25	77-8 3/8	"	-	46'-10 3/8	"	"	"	"	"	-	-	"	"	"	"	1-3 3/16	11x17	-	22x24"	2-10 3/16	"	"	GA-4
	GA-5	3'-1 3/4"	68.31	107-00-04	"	67.81	92-34-52	79-5 1/8	22-9	-	33-11 1/8	.098	.056	"	"	"	-	-	"	"	2 1/4"	0-8 9/16	12x17	-	"	2-8 9/16	4x61	"	GA-5	
A-2	GA-1	"	67.82	92-42-43	6'-9 1/8"	65.30	95-24-43	94-4 7/8	9-4	18-1	57-8 7/8	.114	.120	60x3/8"	14x3/4"	14x3/4"	14x1 1/8	18x1 1/4	14x1 3/8	18x1 1/2	3 1/4"	1-3 7/16	9x16	4x21	28x24"	3-8 7/16	5x47	10x60	GA-1	
	GA-2	5'-9 7/8"	67.83	92-08-38	"	65.25	94-38-38	96-2 9/16	11-5	6-8	59-10 9/16	.083	.086	"	"	14x3/4"	18x1	14x3/4"	18x1 1/4	18x1 1/4	2 7/8"	1-1 5/16	"	"	"	3-1 5/16	5x48	10x60	GA-2	
	GA-3	8'-9 1/8"	67.78	92-09-19	"	65.14	94-30-19	95-10 13/16	"	"	58-8 13/16	"	"	"	"	"	-	-	"	"	"	"	3-11 7/16	"	"	"	"	"	"	GA-3
	GA-4	6'-9 1/8"	67.73	92-10-00	"	65.03	94-51-00	95-7	"	"	58-3	"	"	"	"	"	-	-	"	"	"	"	0-8 1/2	"	"	"	2-8 1/2	"	"	GA-4
	GA-5	6'-9 1/8"	67.65	92-10-41	6'-9 1/8"	64.89	94-51-41	95-3 3/16	11-0	7-2	58-11 3/16	.126	.145	"	"	14x7/8"	"	14x1 1/8	"	"	3 3/8"	0-7 1/8	"	"	"	2-7 1/8	"	"	"	GA-5
A-3	GA-1	"	65.23	93-34-58	7'-4	62.80	96-35-58	97-1 1/4	9-4	10-1	58-3 1/4	.114	.130	60x3/8"	14x3/4"	14x3/4"	14x1 1/8	18x1 1/4	14x1 3/8	18x1 1/2	3 1/4"	0-8 5/8	11x14	9x16	23x24"	3-11 5/8	5x47	10x60	GA-1	
	GA-2	7'-4	65.15	93-36-04	"	62.83	96-37-04	96-9 1/16	9-9	9-5	58-5 1/16	.087	.100	"	"	14x3/4"	"	14x7/8"	"	"	3	1-0 9/16	10x13	9x16	"	3-8 9/16	"	"	GA-2	
	GA-3	7'-10	65.02	93-37-15	"	62.41	96-38-15	96-4 11/16	"	"	58-0 11/16	"	"	"	"	"	-	-	"	"	"	"	1-2 3/8	9x14	"	"	3-7 3/8	"	"	GA-3
	GA-4	7'-10	64.90	93-38-26	"	62.20	96-39-26	96-0 5/16	"	"	57-8 5/16	"	"	"	"	"	-	-	"	"	"	"	1-0 3/16	"	"	"	2-5 3/16	"	"	GA-4
	GA-5	3'-10 1/2"	64.81	91-39-37	6'-0 3/8"	61.99	94-20-37	95-5 5/8	11-0	7-2	58-1 5/8	.126	.145	"	"	14x7/8"	18x1	14x1 1/8	18x1 1/4	18x1 1/4	3 3/8"	0-8 13/16	"	"	"	3-1 13/16	"	"	"	GA-5
A-4	GA-1	"	62.75	94-05-04	6'-10 15/16"	60.56	96-46-04	97-6 13/16	9-4	10-1	58-8 13/16	.114	.130	60x3/8"	14x3/4"	14x3/4"	14x1 1/8	18x1 1/4	14x1 3/8	18x1 1/2	3 1/4"	0-9 7/16	10x15	6x21	25x24"	3-8 7/16	5x47	9x60	GA-1	
	GA-2	5'-1 9/16"	62.67	93-06-12	"	60.33	95-45-12	97-1 5/8	10-11	9-9	55-9 5/8	.092	.106	"	"	14x3/4"	18x1 1/8	14x3/4"	18x1 1/4	14x3/4"	3 1/8"	0-6 13/16	10x15	6x21	25x24"	1-10 13/16	4x50	12x60	GA-2	
	GA-3	5'-1 9/16"	62.59	92-02-50	"	60.07	94-42-50	96-8 13/16	10-7	9-7	56-4 13/16	.086	.089	"	"	"	"	"	"	"	3	0-10 3/8	"	6x18	25x24"	2-11 3/8	5x48	10x60	GA-3	
	GA-4	6'-10 7/8"	62.35	92-03-19	"	59.80	94-44-19	96-4 15/16	"	"	56-0 15/16	"	"	"	"	"	-	-	"	"	"	"	0-8 1/2	"	"	"	2-8 1/2	"	"	GA-4
	GA-5	6'-10 7/8"	62.14	92-03-48	"	59.56	94-44-48	96-1 1/16	"	"	55-9 1/16	"	"	"	"	"	-	-	"	"	"	"	0-8 1/2	"	"	"	2-7 1/2	"	"	GA-5
A-5	GA-1	"	60.54	94-16-18	7'-6 1/8"	58.80	96-57-18	98-0 5/8	9-6	10-3	58-6 5/8	.117	.124	60x3/8"	14x3/4"	14x3/4"	14x1 1/8	18x1 1/4	14x1 3/8	18x1 1/2	3 1/4"	0-8 5/16	10x16	12x21	14x24"	3-8 5/16	4x48	12x60	GA-1	
	GA-2	5'-8	60.36	93-07-56	7'-10 1/4"	58.23	95-48-56	97-6 7/8	10-11	9-9	56-2 7/8	.092	.106	"	"	14x3/4"	18x1 1/8	14x3/4"	18x1 1/4	14x3/4"	3 1/8"	0-8 7/16	10x15	6x21	25x24"	2-11 7/16	5x50	10x60	GA-2	
	GA-3	5'-8	60.14	91-46-38	"	57.89	94-27-38	97-1 5/16	9-10	9-6	60-5 5/16	.088	.101	"	"	"	18x1 1/4	14x7/8"	18x1 1/2	3	0-10 11/16	9x14	10x17	23x24"	3-8 11/16	4x46	9x60	GA-3		
	GA-4	7'-10 1/4"	59.79	91-47-30	"	57.54	94-28-30	96-8 7/8	"	9-7	58-10 7/8	"	"	"	"	"	-	-	"	"	"	"	0-9 7/16	"	"	"	2-8 7/16	"	"	GA-4
	GA-5	7'-10 1/4"	59.46	91-48-23	"	57.21	94-29-23	96-4 1/2	"	9-6	58-8 1/2	"	"	"	"	"	-	-	"	"	"	"	0-6 1/4	"	"	"	2-8 1/4	"	"	GA-5
A-6	GA-1	"	58.12	91-49-05	7'-10 1/4"	56.84	94-30-05	96-0 1/16	"	9-4	58-8 1/16	.126	.145	"	"	14x7/8"	"	14x1 1/8	"	"	3 3/8"	0-7 1/16	10x14	9x17	"	2-8 1/16	"	"	GA-6	
	GA-2	4'-8 15/16"	58.92	93-01-11	7'-4 5/16"	56.16	95-42-11	98-0 9/16	10-11	9-9	56-8 9/16	.092	.106	"	"	14x3/4"	18x1 1/8	14x3/4"	18x1 1/4	14x3/4"	3 1/8"	1-0 1/8	10x15	6x21	25x24"	3-2 1/4	5x50	10x60	GA-2	
	GA-3	4'-8 15/16"	58.12	91-31-31	"	55.84	94-12-31	97-7 1/4	"	"	56-3 1/4	"	"	"	"	"	-	-	"	"	"	"	0-9 5/8	"	"	"	2-11 5/8	"	"	GA-3
	GA-4	7'-4 5/16"	57.78	91-32-07	"	55.53	94-13-07	97-3 1/8	9-8	8-8	60-7 1/8	.086	.089	"	"	"	"	14x7/8"	18x1 3/8	"	"	3	0-8 9/16	9x15	9x19	24x24"	3-7 9/16	5x48	10x60	GA-4
	GA-5	"	57.47	91-32-43	"	55.22	94-13-43	96-11	"	"	60-3	"	"	"	"	"	-	-	"	"	"	"	0-6 1/2	"	"	"	3-5 1/2	"	"	GA-5
A-7	GA-1	"	57.17	91-33-20	"	54.89	94-14-20	96-6 13/16	"	"	59-10 13/16	"	"	"	"	"	-	-	"	"	"	"	1-1 7/16	9x14	"	"	3-9 7/16	"	"	GA-6
	GA-2	7'-4 5/16"	56.82	91-33-55	7'-4 5/16"	54.56	94-14-55	96-2 11/16	"	8-6	59-10 11/16	.126	.145	"	"	14x7/8"	"	14x1 1/8	18x1 3/8	3 3/8"	0-11 3/8	9x14	"	"	"	3-1 3/8	"	"	GA-7	
	GA-3	"	54.89	94-48-00	6'-8	54.35	97-29-00	99-1 1/4	9-4	10-3	58-7 1/4	.117	.124	60x3/8"	14x3/4"	14x3/4"	14x1 1/8	18x1 1/4	14x1 3/8	18x1 1/2	3 1/4"	1-2 5/8	10x16	12x21	14x24"	3-4 5/8	4x48	12x60	GA-1	
	GA-4	6'-6	54.19	94-20-40	7'-5	54.00	97-01-00	98-9 3/4	10-11	9-9	57-4 3/4	.092	.106	"	"	14x3/4"	18x1 1/8	14x3/4"	18x1 1/4	14x3/4"	3 1/8"	1-4 3/8	10x15	6x21	25x24"	3-6 3/8	5x50	10x60	GA-2	
	GA-5	"	53.89	93-50-22	"	53.58	96-31-22	98-3 13/16	10-10	8-9	59-1 13/16	.092	.106	"	"	"	"	"	"	18x1 3/8	"	"	"	0-6	10x16	5x28	27x24"	3-8 7/8	5x48	10x60
A-8	GA-1	"	53.62	93-19-50	"	53.13	96-00-50	97-11	"	"	58-5	"	"	"	"	"	-	-	"	"	"	"	1-1 1/2	10x15	"	"	3-8 1/2	"	"	GA-4
	GA-2	"	53.32	92-40-02	"	52.71	95-30-02	97-6 1/4	"	"	58-4 1/4	"	"	"	"	"	-	-	"	"	"	"	0-11 1/8	"	"	"	3-4 1/8	"	"	GA-5
	GA-3	"	53.04	92-18-00	"	52.28	94-39-00	97-4 5/8	"	"	57-11 5/8	"	"	"	"	"	-	-	"	"	"	"	0-8 13/16	"	"	"	3-1 13/16	"	"	GA-6
	GA-4	6'-6	54.78	91-46-44	7'-5	54.85	94-27-44	96-9 1/16	"	"	57-7 1/16	"	"	"	"	"	-	-	"	"	"	"	0-6 1/2	"	"	"	2-11 1/2	"	"	GA-7
	GA-5	5'-10	54.47	91-18-05	6'-8	51.44	93-59-05	96-5 1/16	"	7-4	60-1 1/16	.126	.145	"	"	14x7/8"	"	14x1 1/8	"	"	3 3/8"	0-9 9/16	11x15	4x20	"	3-2 1/2	5x48	"	GA-8	