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Appendix A: Load Rating and Posting Policies of Other States

Table A.1: Load Rating and Posting Policies of other States

State	Load Rating Procedure	Load Posting Policy
Alabama	<ul style="list-style-type: none"> • Structures designed LFD or ASD shall be load rated per LFR specifications. • Structures designed LRFD shall be load rated per the LRFR specifications. 	
Arizona	<ul style="list-style-type: none"> • LFR is used for load rating and posting. • BrR is used for rating and post the bridges based on MBE guidelines. 	<ul style="list-style-type: none"> • Operating Rating Level based on the LFR methodology. • Posting load analysis as described in AASHTO's Manual for Bridge Evaluation (MBE). • No load posting is necessary if the legal load operating rating factor of the structure is equal to or greater than 1.0.
Colorado		<ul style="list-style-type: none"> • Based on successful of CDOT historical practice, a safe posting load as specified in the MBE, equation 6A.8.3-1 should not be used. • The posting load for Legal vehicles shall be based on the lowest load rating in truncated US tons of any primary members such as girders, in-span hinge, stringers, truss, floor beam, and truss connections, etc.
Florida	<ul style="list-style-type: none"> • LRFR is preferred. • Existing bridges may use LFR when maximum span is < 200 ft. • LRFR – HL93 Inventory/HL93 Operating • When HL93 Operating Rating < 1.3 also rate 7 Florida legal loads and 2 EV • If RF of any Florida legal load < 1.0 – posting policies apply. 	

Appendix B: Schematic Representation of Vehicles from BrR AASHTOware.

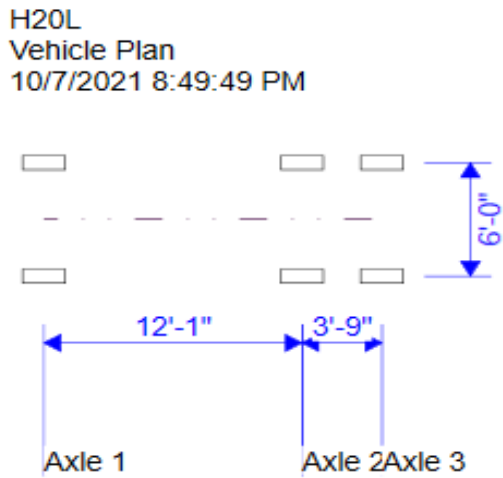


Figure B.1: Schematic showing H20L vehicle in BrR

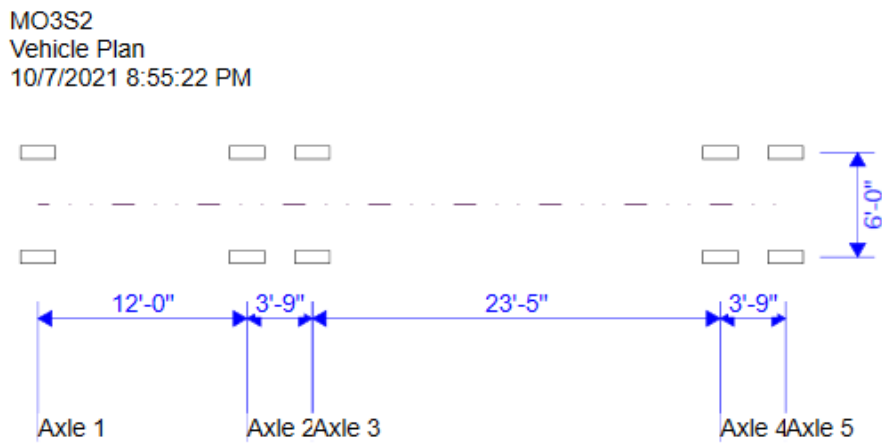


Figure B.2: Schematic showing MO3S2 vehicle in BrR

CZSU
Vehicle Plan
10/7/2021 8:59:00 PM

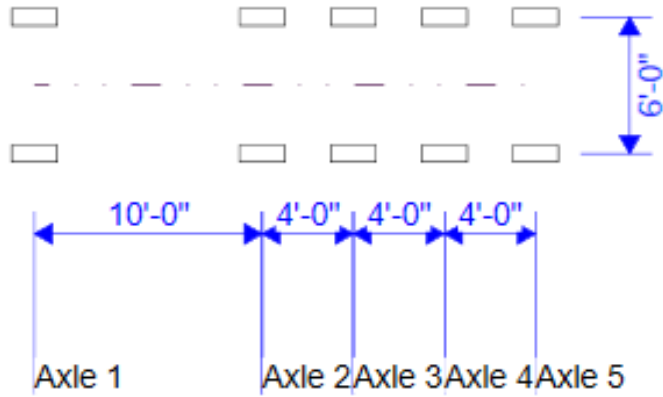


Figure B.3: Schematic showing CZSU vehicle in BrR

CZRT
Vehicle Plan
10/8/2021 5:41:54 PM

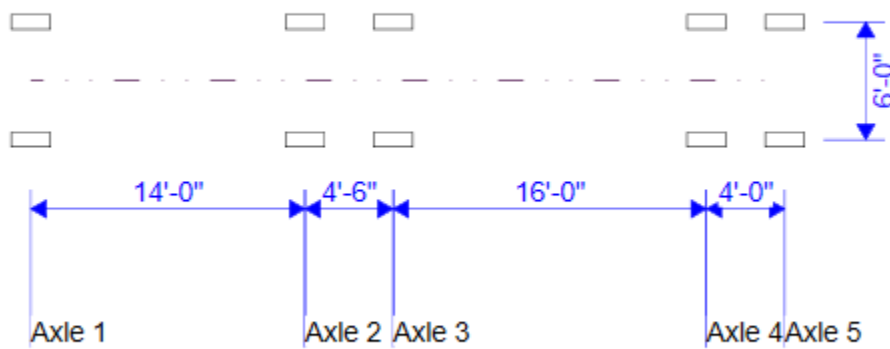


Figure B.4: Schematic showing CZRT vehicle in BrR

H20L Truck Train
 Vehicle Plan
 3/10/2023 3:24:04 AM

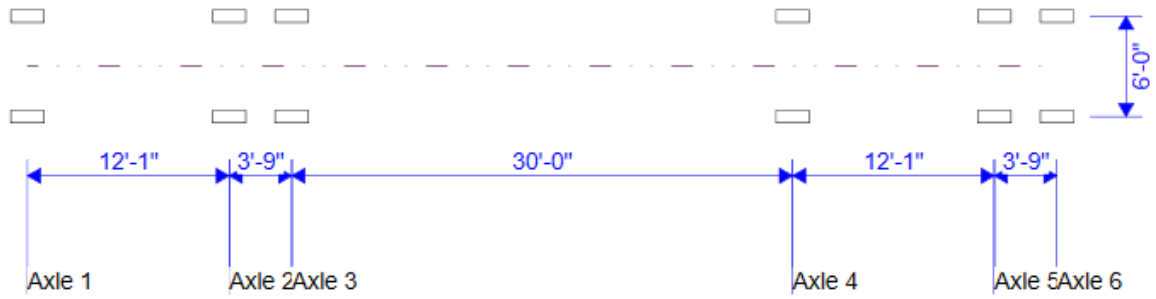


Figure B.5: Schematic showing H20L Truck Train vehicle in BrR

CZSU Truck Train
 Vehicle Plan
 3/10/2023 3:32:03 AM

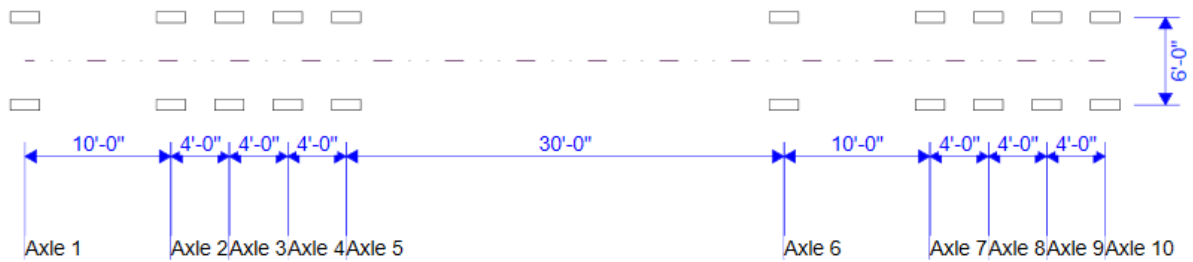


Figure B.6: Schematic showing CZSU Truck Train vehicle in BrR

Truck Train CZRT
 Vehicle Plan
 2/3/2023 5:13:28 AM

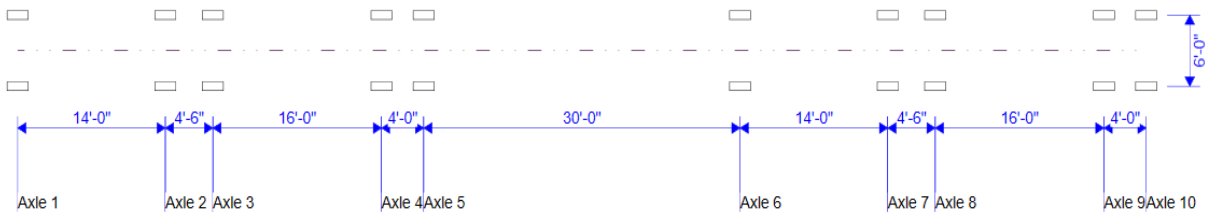


Figure B.7: Schematic showing CZRT Truck Train vehicle in BrR

Type 3
Vehicle Plan
1/1/2005 12:00:00 PM

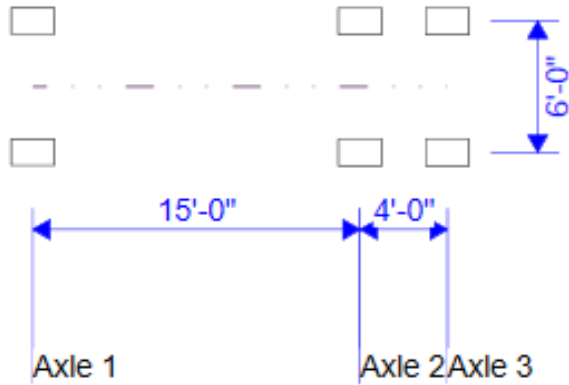


Figure B.8: Schematic showing Type 3 vehicle in BrR

Type 3S2
Vehicle Plan
1/1/2005 12:00:00 PM

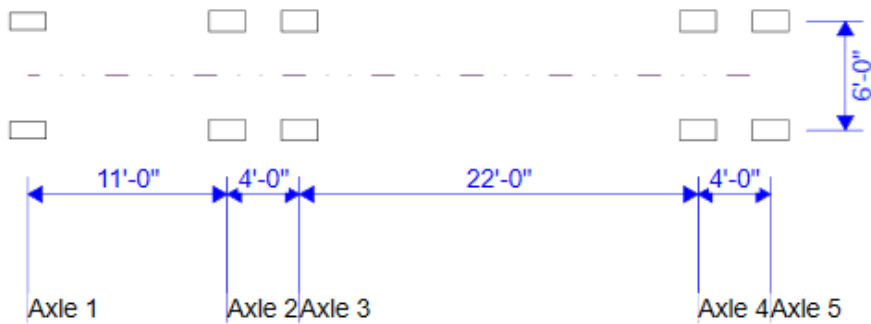


Figure B.9: Schematic showing Type 3S2 vehicle in BrR

Type 3-3
 Vehicle Plan
 1/1/2005 12:00:00 PM

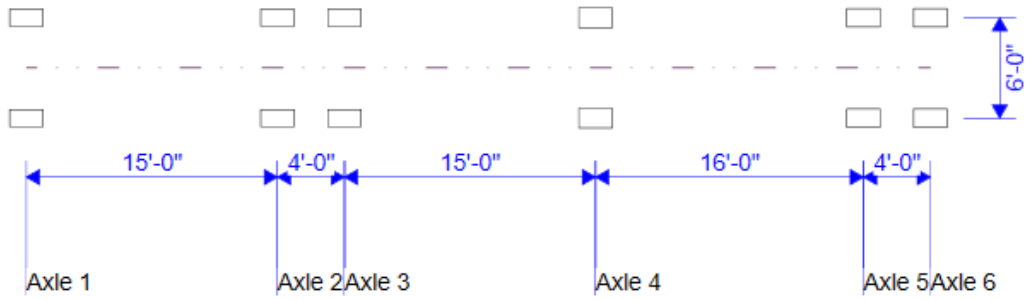


Figure B.10: Schematic showing Type 3-3 vehicle in BrR

Type 3 Truck Train
 Vehicle Plan
 3/10/2023 3:38:39 AM

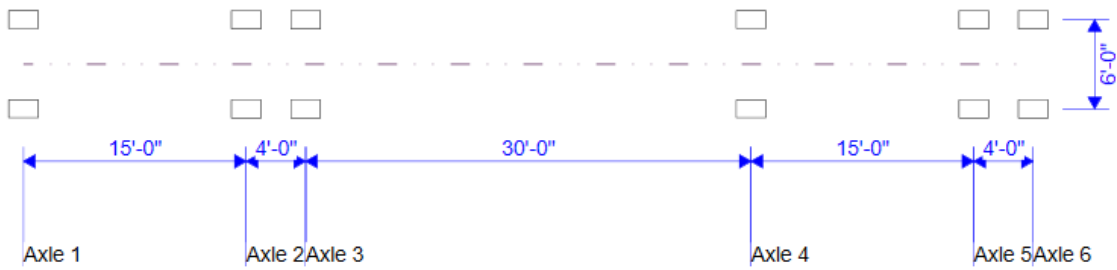


Figure B.11: Schematic showing Type 3 Truck Train vehicle in BrR

Type 3S2 Truck Train
 Vehicle Plan
 3/10/2023 3:49:55 AM

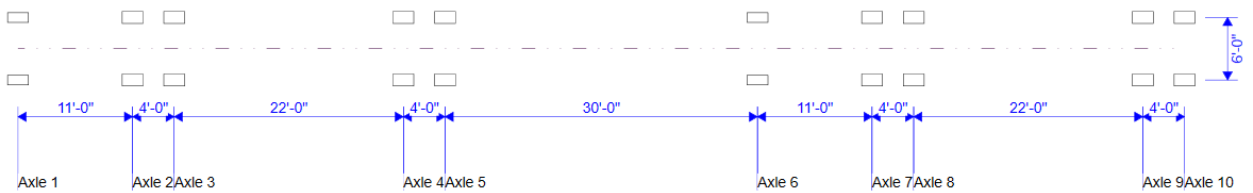


Figure B.12: Schematic showing Type 3S2 Truck Train vehicle in BrR

MO3S2 Truck Train
Vehicle Plan
3/10/2023 3:36:38 AM

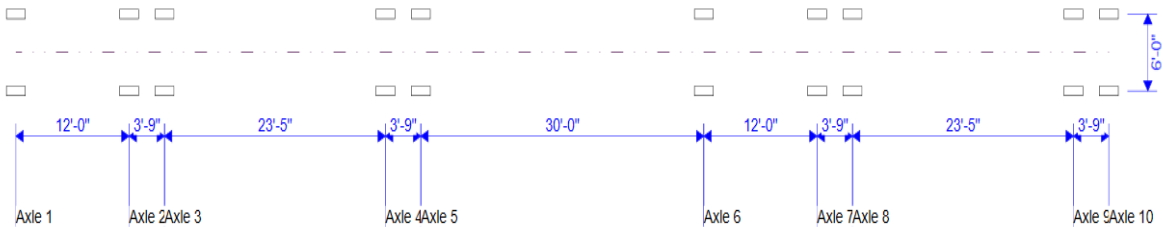


Figure B.13: Schematic showing MO3S2 Truck Train

Appendix C: Steel Bridges – LFR and LRFR Comparison

Table C.1: Rating factors and loads for CZSU vehicle for commercial zone bridges

Bridge	LFR Rating Factor	LFR Rating Load (tons)	LFR Posting Load	LFR Girder	LRFR Rating Factor	LRFR Rating Load (tons)	LRFR Posting Load	LRFR Girder
A0001	1.53	62.39		Interior	1.72	69.99		Interior
A1608E	1.59	64.96		Interior	0.99	40.20	35.4	Exterior
A6723	2.72	111.11		Interior	2.31	94.28		Exterior
A4142	2.37	96.77		Interior	2.18	88.91		Interior
L0598	1.62	66.11		Exterior	1.49	60.82		Exterior
A0996	0.79	32.20	27.7	Exterior	0.67	27.27	24.0	Exterior
A2956	1.39	56.69		Interior	1.32	53.83		Interior
A1096	1.04	42.37	36.4	Interior	0.52	21.09	18.6	Interior
A2223S	1.39	56.87		Interior	1.43	58.42		Interior
A0103	1.31	53.61		Interior	1.27	51.82		Exterior
A2126	1.32	53.76		Interior	1.01	41.04	36.1	Interior
A0172	1.40	57.24		Exterior	1.29	52.58		Exterior
A2364	1.49	60.61		Interior	1.14	46.55		Exterior
A2350W	1.21	49.17		Interior	1.06	43.22	38.0	Exterior
A2780W	1.52	61.97		Interior	1.29	52.48		Interior
A2992	1.46	59.54		Interior	1.26	51.53		Exterior
A3342	1.68	68.43		Interior	1.37	56.06		Exterior
L0791	1.22	49.95		Interior	1.15	46.88		Exterior
A1159N	1.56	63.65		Interior	1.37	55.90		Exterior
A2779E	1.38	56.15		Interior	1.16	47.49		Interior

Table C.2: CZRT comparisons for commercial zone bridges

Bridge	LFR Rating Factor	LFR Rating Load (tons)	LFR Posting Load	LFR Girder	LRFR Rating Factor	LRFR Rating Load	LRFR Posting Load	LRFR Girder
A0001	1.69	86.24		Interior	1.72	87.72		Interior
A1608E	1.38	70.53		Interior	0.86	43.76	38.5	Exterior
A2014W	1.19	60.64	52.1	Interior	1.06	53.86	47.40	Exterior
A6723	2.26	115.46		Interior	1.94	99.14		Interior
A4142	2.06	105.11		Interior	1.90	97.00		Interior
L0598	1.75	89.05		Exterior	1.52	77.57		Exterior
A0996	0.79	40.14	34.5	Exterior	0.59	30.04	26.44	Exterior
A2956	1.30	66.10	56.8	Interior	1.14	58.19	51.21	Interior
A1096	0.87	44.57	38.3	Interior	0.43	21.83	19.21	Interior
A2223S	1.50	76.35		Interior	1.54	78.54		Interior
A0103	1.27	64.57	55.5	Interior	1.22	62.42	54.93	Exterior
A2126	1.28	65.33	56.2	Interior	0.98	49.88	43.89	Interior
A0172	1.39	70.94		Exterior	1.28	65.18	57.36	Exterior
A2364	1.60	81.65		Interior	1.04	52.99	46.63	Exterior
A2350W	1.30	66.45	57.1	Interior	0.97	49.57	43.62	Exterior
A2780W	1.34	68.09	58.6	Interior	1.13	57.63	50.71	Interior
A2992	1.35	68.75	59.1	Interior	1.17	59.52	52.38	Exterior
A3342	1.53	77.78		Interior	1.25	63.75	56.1	Exterior
L0791	1.27	64.52	55.5	Interior	1.10	56.05	49.32	Exterior
A1159N	1.58	80.38		Interior	1.29	65.99	58.07	Exterior
A2779E	1.81	92.41		Interior	1.53	78.18		Interior

Table C.3: Screenshot Showing BrR Library Load Factors of Service II = 1.3S

Load factors: Legal loads Permit loads Concrete Steel Wood Specifications

ridge type: Steel

Limit state	Dead load		Design load				Vehicle			
			Inventory	Operating	Legal load	Permit load	Consider			
	DC	DW	LL	LL	LL	LL	Inv	Op	Legal	Permit
STRENGTH I	1.250	1.500	1.750	1.350	Table...		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
STRENGTH II	1.250	1.500				Table...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SERVICE II	1.000	1.000	1.300	1.000	1.300	1.000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FATIGUE	0.000	0.000	0.800				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Table C.4: H20L Model Showing Axle Loads Adjustments in BrR

Name:

Description: Legal Load model for Single Unit Vehicle - MoDOT
Posting threshold capacity - 30T"/>

Truck **Tandem** Lane

Axle no.	Axle load (kip)	Gage dist. (ft)	Wheel contact width (in)	Axle spacing (ft)	
				Minimum	Maximum
1	8.00	6.00			
▶ 2	16.00	6.00		12.08	12.08
3	16.00	6.00		3.75	3.75

Name:

Description: Legal Load model for Single Unit Vehicle - MoDOT
Posting threshold capacity - 30T"/>

Truck **Tandem** Lane

Axle no.	Axle load (kip)	Gage dist. (ft)	Wheel contact width (in)	Axle spacing (ft)	
				Minimum	Maximum
▶ 1	6.00	6.00			
2	12.00	6.00		12.08	12.08
3	12.00	6.00		3.75	3.75

Appendix D: Steel Bridges – Ratings Data Continued

Table D.1: Data for Bridge A2074

Live Load Type Model	LFR				LRFR			
	RF	LFR	Posting Load	Live Load Type	RF	LRFR	Posting Loads	Live Load Type
CZRT	0.87	44.41	38.19	Axle Load	0.417	21.27	19.36	Axle Load
CZRT Truck Train	0.62	31.63	27.83	Axle Load	0.237	12.10	11.01	Axle Load
CZRT*0.75 + Lane	0.89	45.44	39.08	Truck + Lane	0.389	19.84	18.05	Truck + Lane
CZSU	1.02	41.43	-	Axle Load	0.516	21.05	19.16	Axle Load
CZSU Truck Train	0.68	27.59	23.72	Axle Load	0.276	11.28	10.26	Axle Load
CZSU*0.75 + Lane	1.00	40.84	-	Truck + Lane	0.450	18.36	16.71	Truck + Lane
H20L	2.01	40.24	-	Axle Load	1.049	20.98	-	Axle Load
H20L Truck Train	1.31	26.27	-	Axle Load	0.553	11.06	10.06	Axle Load
H20L*0.75 + Lane	1.58	31.58	-	Truck + Lane	0.674	13.48	12.27	Truck + Lane
MO3S2*0.75 + Lane	1.17	42.80	-	Truck + Lane	0.487	17.84	16.24	Truck + Lane
MO3S2	1.26	46.13	-	Axle Load	0.585	21.43	19.50	Axle Load
MO3S2 Truck Train	0.90	32.82	28.22	Axle Load	0.340	12.46	11.34	Axle Load
Type 3	1.66	41.45	-	Axle Load	0.842	21.05	19.16	Axle Load
Type 3 Truck Train	1.08	26.95	-	Axle Load	0.448	11.19	10.18	Axle Load
Type 3*0.75+ Lane	1.40	35.08	-	Truck + Lane	0.602	15.05	13.70	Truck + Lane
Type 3-3	1.20	47.98	-	Axle Load	0.542	21.68	19.73	Axle Load
Type 3-3 Truck Train	0.91	36.22	31.14	Axle Load	0.334	13.35	12.15	Axle Load
Type 3-3*0.75 + Lane	1.13	45.16	-	Truck + Lane	0.464	18.56	16.89	Truck + Lane
Type 3S2	1.27	45.74	-	Axle Load	0.594	21.40	19.47	Axle Load
Type 3S2 Truck Train	0.90	32.33	29.03	Axle Load	0.343	12.34	11.22	Axle Load
Type 3S2*0.75+ Lane	1.18	42.30	-	Truck + Lane	0.492	17.71	16.12	Truck + Lane

Table D.2: Data for Bridge A3069

Live Load Type Model	LFR RF	LFR RL	LFR Posting Load	LFR Live Load	LRF R RF	LRFR RL	LRFR Rating Load	LRFR Live Load Type
CZRT	3.01	153.66	-	Axle Load	2.08	105.94	-	Axle Load
CZRT Truck Train	1.94	99.02	-	Axle Load	1.34	68.28	-	Axle Load
CZRT*0.75 + Lane	3.19	162.54	-	Truck + Lane	2.92	148.77	-	Truck + Lane
CZSU	3.59	146.33	-	Axle Load	2.47	100.89	-	Axle Load
CZSU Truck Train	2.15	87.65	-	Axle Load	1.48	60.43	-	Axle Load
CZSU*0.75 + Lane	3.65	148.92	-	Truck + Lane	3.31	135.17	-	Truck + Lane
H20L	7.17	143.31	-	Axle Load	4.94	98.80	-	Axle Load
H20L Truck Train	4.18	83.66	-	Axle Load	2.88	57.68	-	Axle Load
H20L*0.75 + Lane	5.90	118.00	-	Truck + Lane	5.26	105.20	-	Truck + Lane
MO3S2*0.75 + Lane	4.18	153.12	-	Truck + Lane	3.85	141.06	-	Truck + Lane
MO3S2	4.30	157.52	-	Axle Load	2.96	108.56	-	Axle Load
MO3S2 Truck Train	2.84	103.92	-	Axle Load	1.96	71.66	-	Axle Load
Type 3	5.84	145.87	-	Axle Load	4.02	100.57	-	Axle Load
Type 3 Truck Train	3.45	86.36	-	Axle Load	2.38	59.54	-	Axle Load
Type 3*0.75+ Lane	5.17	129.28	-	Truck + Lane	4.74	118.43	-	Truck + Lane
Type 3-3	4.08	163.01	-	Axle Load	2.81	112.39	-	Axle Load
Type 3-3 Truck Train	2.85	113.80	-	Axle Load	1.96	78.47	-	Axle Load
Type 3-3*0.75 + Lane	4.02	160.72	-	Truck + Lane	3.67	146.88	-	Truck + Lane
Type 3S2	4.36	157.12	-	Axle Load	3.01	108.33	-	Axle Load
Type 3S2 Truck Train	2.86	102.83	-	Axle Load	1.97	70.90	-	Axle Load
Type 3S2*0.75+ Lane	4.23	152.10	-	Truck + Lane	3.88	139.79	-	Truck + Lane

Table D.3: Data for Bridge A5677

Live Load Type Model	LFR RF	LFR LFR	LFR Posting Load	LFR Live Load Type	LRFR RF	LRFR LRFR		LRFR Live Load Type
	2.25	114.93	-	Axle Load	1.95	99.52	-	Axle Load
CZRT Truck Train	1.46	74.24	-	Axle Load	1.26	64.38	-	Axle Load
CZRT*0.75 + Lane	2.21	112.66	-	Truck + Lane	2.05	104.30	-	Truck + Lane
CZSU	2.67	109.01	-	Axle Load	2.31	94.33	-	Axle Load
CZSU Truck Train	1.64	67.03	-	Axle Load	1.43	58.14	-	Axle Load
CZSU*0.75 + Lane	2.49	101.76	-	Truck + Lane	2.33	95.06	-	Truck + Lane
H20L	5.34	106.85	-	Axle Load	4.62	92.43	-	Axle Load
H20L Truck Train	3.23	64.57	-	Axle Load	2.80	56.00	-	Axle Load
H20L*0.75 + Lane	3.84	76.70	-	Truck + Lane	3.75	74.90	-	Truck + Lane
MO3S2*0.75 + Lane	2.83	103.84	-	Truck + Lane	2.68	98.05	-	Truck + Lane
MO3S2	3.22	118.02	-	Axle Load	2.79	102.18	-	Axle Load
MO3S2 Truck Train	2.09	76.57	-	Axle Load	1.81	66.41	-	Axle Load
Type 3	4.36	109.10	-	Axle Load	3.78	94.41	-	Axle Load
Type 3 Truck Train	2.64	65.93	-	Axle Load	2.29	57.18	-	Axle Load
Type 3*0.75+ Lane	3.42	85.58	-	Truck + Lane	3.30	82.43	-	Truck + Lane
Type 3-3	3.05	122.06	-	Axle Load	2.65	105.79	-	Axle Load
Type 3-3 Truck Train	2.06	82.41	-	Axle Load	1.79	71.52	-	Axle Load
Type 3-3*0.75 + Lane	2.73	109.36	-	Truck + Lane	2.58	103.00	-	Truck + Lane
Type 3S2	3.26	117.34	-	Axle Load	2.82	101.61	-	Axle Load
Type 3S2 Truck Train	2.10	75.70	-	Axle Load	1.82	65.66	-	Axle Load
Type 3S2*0.75+ Lane	2.86	102.82	-	Truck + Lane	2.70	97.16	-	Truck + Lane

Table D.4: Data for Bridge A6723

Live Load Type Model	LFR RF	LFR RL	LFR Live Load Type	LRFR RF	LRFR RL	LRFR Live Load Type
CZRT	2.26	115.47	Axle Load	1.94	99.14	Axle Load
CZRT Truck Train	1.38	70.54	Axle Load	1.19	60.57	Axle Load
CZRT*0.75 + Lane	2.34	119.49	Truck + Lane	2.13	108.63	Truck + Lane
CZSU	2.72	111.11	Axle Load	2.34	95.40	Axle Load
CZSU Truck Train	1.57	64.05	Axle Load	1.35	54.99	Axle Load
CZSU*0.75 + Lane	2.70	110.00	Truck + Lane	2.47	100.90	Truck + Lane
H20L	5.47	109.30	Axle Load	4.69	93.84	Axle Load
H20L Truck Train	3.09	61.75	Axle Load	2.65	53.02	Axle Load
H20L*0.75 + Lane	4.30	85.92	Truck + Lane	4.11	82.14	Truck + Lane
MO3S2*0.75 + Lane	3.04	111.42	Truck + Lane	2.81	103.07	Truck + Lane
MO3S2	3.21	117.72	Axle Load	2.76	101.07	Axle Load
MO3S2 Truck Train	2.00	73.30	Axle Load	1.72	62.94	Axle Load
Type 3	4.43	110.84	Axle Load	3.81	95.16	Axle Load
Type 3 Truck Train	2.53	63.31	Axle Load	2.17	54.36	Axle Load
Type 3*0.75+ Lane	3.78	94.45	Truck + Lane	3.56	89.08	Truck + Lane
Type 3-3	3.02	120.97	Axle Load	2.60	103.86	Axle Load
Type 3-3 Truck Train	1.97	78.88	Axle Load	1.69	67.72	Axle Load
Type 3-3*0.75 + Lane	2.91	116.44	Truck + Lane	2.69	107.40	Truck + Lane
Type 3S2	3.26	117.52	Axle Load	2.80	100.90	Axle Load
Type 3S2 Truck Train	2.02	72.68	Axle Load	1.73	62.40	Axle Load
Type 3S2*0.75+ Lane	3.07	110.66	Truck + Lane	2.85	102.49	Truck + Lane

Table D.5: Data for Bridge A5910

Live Load Type Model	LFR RF	LFR RL	LFR Live Load Type	LRFR RF	LRFR RL	LRFR Live Load Type
CZRT	3.37	171.95	Axle Load	2.51	127.90	Axle Load
CZRT Truck Train	2.01	102.27	Axle Load	1.49	76.10	Axle Load
CZRT*0.75 + Lane	3.06	156.06	Truck + Lane	2.47	126.07	Truck + Lane
CZSU	4.04	164.86	Axle Load	3.00	122.56	Axle Load
CZSU Truck Train	2.33	95.05	Axle Load	1.73	70.70	Axle Load
CZSU*0.75 + Lane	3.45	140.68	Truck + Lane	2.82	114.89	Truck + Lane
H20L	8.13	162.55	Axle Load	6.04	120.84	Axle Load
H20L Truck Train	4.62	92.44	Axle Load	3.44	68.74	Axle Load
H20L*0.75 + Lane	5.09	101.70	Truck + Lane	4.36	87.12	Truck + Lane
MO3S2*0.75 + Lane	4.77	174.66	Axle Load	3.16	115.64	Truck + Lane
MO3S2	3.82	140.00	Axle Load	3.55	129.93	Axle Load
MO3S2 Truck Train	2.86	104.63	Axle Load	2.13	77.84	Axle Load
Type 3	6.60	165.09	Axle Load	4.91	122.74	Axle Load
Type 3 Truck Train	3.76	94.07	Axle Load	2.80	69.98	Axle Load
Type 3*0.75+ Lane	4.59	114.70	Truck + Lane	3.87	96.83	Truck + Lane
Type 3-3	4.50	180.12	Axle Load	3.35	133.97	Axle Load
Type 3-3 Truck Train	2.76	110.40	Axle Load	2.05	82.13	Axle Load
Type 3-3*0.75 + Lane	3.69	147.64	Truck + Lane	3.04	121.44	Truck + Lane
Type 3S2	4.84	174.10	Axle Load	3.60	129.53	Axle Load
Type 3S2 Truck Train	2.88	103.79	Axle Load	2.15	77.22	Axle Load
Type 3S2*0.75+ Lane	3.85	138.74	Truck + Lane	3.19	114.70	Truck + Lane

Table D.6: LFR Comparison Table MoDOT and AASHTO for A2074

LFR COMPARISONS			
VEHICLE	H20L	TYPE 3	Factor
VEHICLE	40.24	41.45	1.03
0.75*VEHICLE+LANE	31.58	35.08	1.11
TRUCK TRAIN	26.265	26.95	1.03
VEHICLE	MO3S2	TYPE 3S2	Factor
VEHICLE	46.13	45.74	1.43
0.75*VEHICLE+LANE	42.80	42.30	0.99
TRUCK TRAIN	32.82	32.33	0.99
VEHICLE	CZRT	TYPE 3-3	Factor
VEHICLE	44.41	47.98	1.08
0.75*VEHICLE+LANE	45.44	45.16	0.99
TRUCK TRAIN	31.625	36.22	1.15
LRFR COMPARISONS			
VEHICLE	H20L	TYPE 3	Factor
VEHICLE	20.98	21.05	1.00
0.75*VEHICLE+LANE	13.48	15.05	1.12
TRUCK TRAIN	11.06	11.19	1.01
VEHICLE	MO3S2	TYPE 3S2	Factor
VEHICLE	21.43	21.40	1.00
0.75*VEHICLE+LANE	17.84	17.71	0.99
TRUCK TRAIN	12.46	12.34	0.99
VEHICLE	CZRT	TYPE 3-3	Factor
VEHICLE	21.27	21.68	1.02
0.75*VEHICLE+LANE	19.84	18.56	0.94
TRUCK TRAIN	12.10	13.35	1.10

Table D.7: Comparison Table for A3069

LFR COMPARISONS			
VEHICLE	H20L	TYPE 3	Factor
VEHICLE	143.31	145.87	1.02
0.75*VEHICLE+LANE	118.00	129.28	1.10
TRUCK TRAIN	83.655	86.36	1.03
VEHICLE	MO3S2	TYPE 3S2	Factor
VEHICLE	153.12	157.12	1.03
0.75*VEHICLE+LANE	153.12	152.10	0.99
TRUCK TRAIN	103.92	102.83	0.99
VEHICLE	CZRT	TYPE 3-3	Factor
VEHICLE	153.66	163.01	1.06
0.75*VEHICLE+LANE	162.54	160.72	0.99
TRUCK TRAIN	99.015	113.80	1.15
LRFR COMPARISONS			
VEHICLE	H20L	TYPE 3	Factor
VEHICLE	98.80	100.57	1.02
0.75*VEHICLE+LANE	105.20	118.43	1.13
TRUCK TRAIN	57.68	59.54	1.03
VEHICLE	MO3S2	TYPE 3S2	Factor
VEHICLE	108.56	108.33	1.00
0.75*VEHICLE+LANE	141.06	139.79	0.99
TRUCK TRAIN	71.66	70.90	0.99
VEHICLE	CZRT	TYPE 3-3	Factor
VEHICLE	105.94	112.39	1.06
0.75*VEHICLE+LANE	148.77	146.88	0.99
TRUCK TRAIN	68.28	78.47	1.15

Table D.8: Comparison Table for MoDOT for A5677

LFR COMPARISONS			
VEHICLE	H20L	TYPE 3	Factor
VEHICLE	106.85	109.10	1.02
0.75*VEHICLE+LANE	76.70	85.58	1.12
TRUCK TRAIN	64.570	65.93	1.02
VEHICLE	MO3S2	TYPE 3S2	Factor
VEHICLE	118.02	117.34	0.99
0.75*VEHICLE+LANE	103.84	102.82	0.99
TRUCK TRAIN	76.57	75.70	0.99
VEHICLE	CZRT	TYPE 3-3	Factor
VEHICLE	114.93	122.06	1.06
0.75*VEHICLE+LANE	112.66	109.36	0.97
TRUCK TRAIN	74.235	82.41	1.11
LRFR COMPARISONS			
VEHICLE	H20L	TYPE 3	Factor
VEHICLE	92.43	94.41	1.02
0.75*VEHICLE+LANE	74.90	82.43	1.10
TRUCK TRAIN	56.00	57.18	1.02
VEHICLE	MO3S2	TYPE 3S2	Factor
VEHICLE	102.18	101.61	0.99
0.75*VEHICLE+LANE	98.05	97.16	0.99
TRUCK TRAIN	66.41	65.66	0.99
VEHICLE	CZRT	TYPE 3-3	Factor
VEHICLE	99.52	105.79	1.06
0.75*VEHICLE+LANE	104.30	103.00	0.99
TRUCK TRAIN	64.38	71.52	1.11

Table D.9: Comparison Table for A6723

LFR COMPARISONS			
VEHICLE	H20L	TYPE 3	Factor
VEHICLE	109.30	110.84	1.01
0.75*VEHICLE+LANE	85.92	94.45	1.10
TRUCK TRAIN	61.745	63.31	1.03
VEHICLE	MO3S2	TYPE 3S2	Factor
VEHICLE	117.72	117.52	1.41
0.75*VEHICLE+LANE	111.42	110.66	0.94
TRUCK TRAIN	73.30	72.68	0.99
VEHICLE	CZRT	TYPE 3-3	Factor
VEHICLE	115.47	120.97	1.05
0.75*VEHICLE+LANE	119.49	116.44	0.97
TRUCK TRAIN	70.540	78.88	1.12
LRFR COMPARISONS			
VEHICLE	H20L	TYPE 3	Factor
VEHICLE	93.84	95.16	1.01
0.75*VEHICLE+LANE	82.14	89.08	1.08
TRUCK TRAIN	53.02	54.36	1.03
VEHICLE	MO3S2	TYPE 3S2	Factor
VEHICLE	101.07	100.90	1.00
0.75*VEHICLE+LANE	103.07	102.49	0.99
TRUCK TRAIN	62.94	62.40	0.99
VEHICLE	CZRT	TYPE 3-3	Factor
VEHICLE	99.14	103.86	1.05
0.75*VEHICLE+LANE	108.63	107.40	0.99
TRUCK TRAIN	60.57	67.72	1.12

Table D.10: Comparison table MoDOT and AASHTO for A5910

LFR			
VEHICLE	H20L	TYPE 3	Factor
VEHICLE	162.55	165.09	1.02
0.75*VEHICLE+LANE	101.70	114.70	1.13
TRUCK TRAIN	92.435	94.07	1.02
MO3S2			
VEHICLE	MO3S2	TYPE 3S2	Factor
VEHICLE	174.66	174.10	1.66
0.75*VEHICLE+LANE	140.00	138.74	0.79
TRUCK TRAIN	104.63	103.79	0.99
CZRT			
VEHICLE	CZRT	TYPE 3-3	Factor
VEHICLE	171.95	180.12	1.05
0.75*VEHICLE+LANE	156.06	147.64	0.95
TRUCK TRAIN	102.270	110.40	1.08
LRFR			
VEHICLE	H20L	TYPE 3	Factor
VEHICLE	120.84	122.74	1.02
0.75*VEHICLE+LANE	87.12	96.83	1.11
TRUCK TRAIN	68.74	69.98	1.02
MO3S2			
VEHICLE	MO3S2	TYPE 3S2	Factor
VEHICLE	129.93	129.53	1.00
0.75*VEHICLE+LANE	115.64	114.70	0.99
TRUCK TRAIN	77.84	77.22	0.99
CZRT			
VEHICLE	CZRT	TYPE 3-3	Factor
VEHICLE	127.90	133.97	1.05
0.75*VEHICLE+LANE	126.07	121.44	0.96
TRUCK TRAIN	76.10	82.13	1.08

Appendix E: Prestressed Concrete Bridges

Table E.1: Prestressed Bridge Sample Information

Bridge	NBI	Design Method	Year Built	Continuity	Construct
A5037	11929	LFD	1991	Continuous	STRINGER/MULTIBEAM - GRD
A6059	11967	LFD	2000	Continuous	STRINGER/MULTIBEAM - GRD
A6355	29071	LFD	2002	Continuous	TEE BEAM
A6121	30347	LFD	2004	Continuous	STRINGER/MULTIBEAM - GRD
A6122	30349	LFD	2004	Continuous	STRINGER/MULTIBEAM - GRD
A6458	29354	LFD	2003	Continuous	STRINGER/MULTIBEAM - GRD
A6632	29431	LFD	2003	Continuous	STRINGER/MULTIBEAM - GRD
A4236	3465	LFD	1983	Continuous	STRINGER/MULTIBEAM - GRD
A6733	29616	LFD	2004	Continuous	TEE BEAM
A6520	29472	LFD	2003	Continuous	STRINGER/MULTIBEAM - GRD
A6381	29110	LFD	2003	Continuous	TEE BEAM
A6775	28857	LFD	1987	Continuous	STRINGER/MULTIBEAM - GRD
A6372	29201	LFD	2002	Continuous	STRINGER/MULTIBEAM - GRD
A4378	3578	LFD	1984	Continuous	STRINGER/MULTIBEAM - GRD
A6519	30136	LFD	2004	Continuous	STRINGER/MULTIBEAM - GRD
A6287	29679	LFD	2003	Continuous	STRINGER/MULTIBEAM - GRD
A1154N	946	LFD	1985	Continuous	STRINGER/MULTIBEAM - GRD
A1178	969	LFD	1983	Continuous	STRINGER/MULTIBEAM - GRD
A3434	2887	ASD	1976	Continuous	STRINGER/MULTIBEAM - GRD
A7068	31312	LFD	2006	Continuous	STRINGER/MULTIBEAM - GRD
A5230	4157	LFD	1995	Continuous	STRINGER/MULTIBEAM - GRD
A5231	4158	LFD	1995	Continuous	STRINGER/MULTIBEAM - GRD
A3775	3139	ASD	1981	Continuous	STRINGER/MULTIBEAM - GRD
A3867	3202	LFD	1980	Continuous	STRINGER/MULTIBEAM - GRD
A6259	31668	LFD	2006	Continuous	TEE BEAM
A6678	31294	LFD	2005	Simply	STRINGER/MULTIBEAM - GRD
A6144	31624	LFD	2006	Continuous	TEE BEAM
A6496	31434	LFD	2006	Continuous	TEE BEAM
A6782	31525	LFD	2006	Continuous	STRINGER/MULTIBEAM - GRD
A3357	2832	ASD	1976	Continuous	STRINGER/MULTIBEAM - GRD
A4147	3393	LFD	1994	Simply	STRINGER/MULTIBEAM - GRD
A5861	4417	LFD	1997	Simply	STRINGER/MULTIBEAM - GRD
A5862	4418	LFD	1997	Simply	STRINGER/MULTIBEAM - GRD

Bridge	NBI	Design Method	Year Built	Continuity	Construct
K0610	5869	ASD	1938	Continuous	STRINGER/MULTIBEAM - GRD
A4462	3647	LFD	1986	Continuous	STRINGER/MULTIBEAM - GRD
A7144	31630	LFD	2006	Continuous	STRINGER/MULTIBEAM - GRD
A6909	31606	LFD	2006	Continuous	STRINGER/MULTIBEAM - GRD
A7381	31614	LFD	2007	Continuous	TEE BEAM
A7206	31628	LFD	2006	Continuous	STRINGER/MULTIBEAM - GRD
A3793	3153	LFD	1993	Continuous	STRINGER/MULTIBEAM - GRD
A6780	31520	LFD	2006	Continuous	TEE BEAM
A6784	31798	LFD	2007	Simply	STRINGER/MULTIBEAM - GRD
A6749	28856	LFD	2001	Continuous	STRINGER/MULTIBEAM - GRD
A7277	31782	LFD	2007	Continuous	STRINGER/MULTIBEAM - GRD
A7506	31878	LFD	2007	Continuous	STRINGER/MULTIBEAM - GRD
A6483	32091	LFD	2007	Simply	STRINGER/MULTIBEAM - GRD
A1153S	943	LFD	1985	Continuous	STRINGER/MULTIBEAM - GRD
A8005	32225	LFD	2008	Simply	TEE BEAM
A8010	32263	LFD	2008	Simply	TEE BEAM
A8007	32270	LFD	2008	Simply	STRINGER/MULTIBEAM - GRD
A2948W	2534	ASD	1975	Simply	STRINGER/MULTIBEAM - GRD
B0298	32932	LFD	2010	Simply	BOX BEAM OR GIRDERS - SING
B0072	32983	LRFR	2010	Simply	BOX BEAM OR GIRDERS - MULT
A4191	3428	LFD	1983	Continuous	STRINGER/MULTIBEAM - GRD
B0303	32998	LFD	2010	Simply	BOX BEAM OR GIRDERS - SING
B0128	33041	LRFR	2010	Simply	BOX BEAM OR GIRDERS - MULT
B0311	33198	LRFR	2010	Simply	BOX BEAM OR GIRDERS - SING
B0014	33248	LFD	2010	Simply	BOX BEAM OR GIRDERS - MULT
B0166	33206	LRFR	2010	Simply	BOX BEAM OR GIRDERS - MULT
B0164	33237	LFD	2010	Simply	BOX BEAM OR GIRDERS - MULT
B0491	33245	LFD	2011	Simply	BOX BEAM OR GIRDERS - SING
B0255	33293	LRFR	2011	Simply	BOX BEAM OR GIRDERS - SING
B0334	33365	LFD	2011	Simply	BOX BEAM OR GIRDERS - SING
B0272	33353	LFD	2011	Simply	BOX BEAM OR GIRDERS - SING
B0226	33445	LFD	2011	Simply	BOX BEAM OR GIRDERS - SING
B0057	33443	LFD	2011	Simply	BOX BEAM OR GIRDERS - MULT
B0290	33475	LRFD	2011	Simply	BOX BEAM OR GIRDERS - MULT
B0523	33681	LRFD	2011	Simply	BOX BEAM OR GIRDERS - SING
B0267	33538	LRFD	2011	Simply	BOX BEAM OR GIRDERS - MULT
B0315	33577	LRFD	2011	Simply	BOX BEAM OR GIRDERS - SING

Bridge	NBI	Design Method	Year Built	Continuity	Construct
B0431	33665	LRFD	2011	Simply	TEE BEAM
A7647	32839	LFD	2009	Continuous	TEE BEAM
B0100	33651	LRFD	2011	Simply	BOX BEAM OR GIRDERS - MULT
B0484	33718	LRFD	2011	Simply	BOX BEAM OR GIRDERS - MULT
B0151	33751	LRFD	2011	Simply	BOX BEAM OR GIRDERS - MULT
B0287	33838	LRFD	2011	Simply	BOX BEAM OR GIRDERS - MULT
B0246	33966	LFD	2012	Simply	BOX BEAM OR GIRDERS - MULT
B0397	33969	LFD	2012	Simply	BOX BEAM OR GIRDERS - MULT
B0470	33952	LFD	2012	Simply	BOX BEAM OR GIRDERS - MULT
B0030	33971	LFD	2012	Simply	BOX BEAM OR GIRDERS - MULT
B0443	34096	LFD	2012	Simply	BOX BEAM OR GIRDERS - MULT
B0197	34120	LFD	2012	Simply	BOX BEAM OR GIRDERS - MULT
A7618	32125	LFD	2007	Simply	TEE BEAM
R0224	8196	ASD	1962	Simply	BOX BEAM OR GIRDERS - SING
A6306	29016	LFD	2002	Continuous	STRINGER/MULTIBEAM - GRD
A6810	29581	LFD	2003	Continuous	STRINGER/MULTIBEAM - GRD
A3631	3026	ASD	1977	Continuous	STRINGER/MULTIBEAM - GRD
A5034	4059	LFD	1993	Continuous	STRINGER/MULTIBEAM - GRD
A5449	4278	LFD	1995	Simply	STRINGER/MULTIBEAM - GRD
A6755	31841	LFD	2009	Continuous	TEE BEAM
A8022	32223	LFD	2008	Continuous	STRINGER/MULTIBEAM - GRD
A7329	32200	LFD	2008	Continuous	TEE BEAM
A8020	32250	LFD	2008	Simply	TEE BEAM
N0385	6970	ASD	1963	Simply	SLAB
N0372	6961	ASD	1957	Simply	SLAB
K0107	5669	ASD	1933	Continuous	TEE BEAM
B0302	32797	LFD	2009	Simply	BOX BEAM OR GIRDERS - SING
A4170	3410	LFD	1985	Continuous	STRINGER/MULTIBEAM - GRD
A3745	3117	LFD	1982	Continuous	STRINGER/MULTIBEAM - GRD
A5309	4203	LFD	1994	Continuous	STRINGER/MULTIBEAM - GRD

Table E.2: Rating Result for H20 Legal Load

Bridge	LFR Rating Factor	LFR Rating Load (Tons)	LRFR Rating Factor	LRFR Rating Load (Tons)	Ratio LRFR/LFR
A5037	2.91	58.28	3.50	69.90	1.20
A6059	2.62	52.34	3.16	63.24	1.21
A6355	4.42	88.34	4.07	81.47	0.92
A6121	3.77	75.35	4.20	84.04	1.12
A6122	3.78	75.54	4.20	84.00	1.11
A6458	2.50	50.06	2.90	57.94	1.16
A6632	3.64	72.74	3.94	78.75	1.08
A4236	2.65	52.92	2.35	46.95	0.89
A6733	4.46	89.12	4.57	91.35	1.03
A6520	2.76	55.14	2.98	59.58	1.08
A6381	4.18	83.63	4.27	85.45	1.02
A6775	3.75	75.00	3.49	69.78	0.93
A6372	4.55	90.99	4.27	85.30	0.94
A4378	3.27	65.43	3.54	70.81	1.08
A6519	3.37	67.43	3.58	71.67	1.06
A6287	2.85	57.06	3.13	62.53	1.10
A1154N	2.70	54.02	2.85	56.93	1.05
A1178	3.57	71.42	4.59	91.88	1.29
A3434	3.14	62.77	3.45	68.97	1.10
A7068	3.79	75.76	3.98	79.52	1.05
A5230	2.66	53.11	2.86	57.25	1.08
A5231	3.83	76.56	4.24	84.71	1.11
A3775	2.61	52.10	3.22	64.49	1.24
A3867	2.93	58.55	3.09	61.78	1.06
A6259	4.77	95.42	4.89	97.84	1.03
A6678	3.83	76.59	3.63	72.62	0.95
A6144	3.96	79.14	3.76	75.22	0.95
A6496	3.08	61.53	2.61	52.22	0.85
A6782	3.91	78.25	4.24	84.84	1.08
A3357	2.84	56.77	3.36	67.17	1.18
A4147	3.00	60.00	3.33	66.60	1.11
A5861	3.07	61.46	3.47	69.46	1.13
A5862	3.05	60.99	3.47	69.41	1.14
K0610	2.84	56.75	3.16	63.16	1.11

Bridge	LFR Rating Factor	LFR Rating Load (Tons)	LRFR Rating Factor	LRFR Rating Load (Tons)	Ratio LRFR/LFR
A4462	2.77	55.29	3.01	60.14	1.09
A7144	3.45	69.09	3.35	66.92	0.97
A6909	3.56	71.29	3.84	76.71	1.08
A7381	5.00	99.98	5.21	104.13	1.04
A7206	3.74	74.87	3.77	75.49	1.01
A3793	3.64	72.71	4.21	84.14	1.16
A6780	4.65	92.98	3.93	78.52	0.84
A6784	3.17	63.38	3.28	65.54	1.03
A6749	3.24	64.79	3.53	70.65	1.09
A7277	2.90	58.06	3.19	63.84	1.10
A7506	3.67	73.46	4.26	85.19	1.16
A6483	3.89	77.73	4.15	83.08	1.07
A1153S	2.88	57.62	3.13	62.61	1.09
A8005	5.07	101.46	4.72	94.33	0.93
A8010	3.68	73.56	3.83	76.59	1.04
A8007	5.18	103.66	3.96	79.27	0.76
A2948W	2.91	58.25	3.48	69.50	1.19
B0298	4.76	95.16	4.27	85.46	0.90
B0072	3.09	61.81	2.73	54.65	0.88
A4191	4.56	91.11	4.35	86.94	0.95
B0303	3.99	79.73	3.96	79.16	0.99
B0128	3.10	62.00	2.74	54.81	0.88
B0311	3.59	71.69	4.18	83.51	1.16
B0014	3.44	68.82	3.40	67.96	0.99
B0166	3.02	60.42	2.81	56.27	0.93
B0164	3.08	61.66	2.38	47.51	0.77
B0491	4.30	85.93	4.27	85.39	0.99
B0255	4.19	83.75	4.12	82.48	0.98
B0334	4.25	85.00	4.11	82.14	0.97
B0272	3.39	67.84	3.34	66.74	0.98
B0226	3.92	78.29	3.81	76.20	0.97
B0057	4.36	87.13	4.73	94.65	1.09
B0290	3.01	60.14	2.92	58.41	0.97
B0523	3.11	62.23	3.67	73.42	1.18
B0267	2.84	56.74	2.39	47.81	0.84
B0315	3.69	73.72	3.67	73.44	1.00

Bridge	LFR Rating Factor	LFR Rating Load (Tons)	LRFR Rating Factor	LRFR Rating Load (Tons)	Ratio LRFR/LFR
B0431	5.44	108.78	4.22	84.46	0.78
A7647	4.25	85.07	3.95	79.05	0.93
B0100	3.31	66.14	3.24	64.82	0.98
B0484	3.00	59.90	2.93	58.53	0.98
B0151	3.11	62.25	2.82	56.32	0.90
B0287	3.37	67.39	3.38	67.56	1.00
B0246	3.31	66.14	3.38	67.59	1.02
B0397	3.31	66.14	3.24	64.82	0.98
B0470	3.01	60.14	2.38	47.51	0.79
B0030	2.83	56.59	2.38	47.69	0.84
B0443	3.00	59.96	2.51	50.18	0.84
B0197	2.99	59.71	3.09	61.80	1.04
A7618	4.40	88.02	3.66	73.21	0.83
R0224	3.17	63.43	2.60	52.06	0.82
A6306	2.98	59.50	3.34	66.76	1.12
A6810	3.14	62.86	2.79	55.74	0.89
A3631	2.00	39.96	2.61	52.24	1.31
A5034	2.26	45.22	2.39	47.82	1.06
A5449	3.95	78.96	4.60	91.93	1.16
A6755	5.11	102.23	5.22	104.32	1.02
A8022	4.11	82.14	4.39	87.74	1.07
A7329	4.94	98.79	4.86	97.20	0.98
A8020	4.63	92.51	4.52	90.49	0.98
N0385	2.51	50.24	1.99	39.83	0.79
N0372	2.31	46.18	2.09	41.75	0.90
K0107	3.03	60.65	2.72	54.39	0.90
B0302	4.08	81.54	3.84	76.71	0.94
A4170	4.51	90.21	4.62	92.36	1.02
A3745	4.50	89.99	3.72	74.35	0.83
A5309	3.66	73.25	3.91	78.26	1.07

Table E.3: Governing Girder and Limit State Result for H20 Legal Load

Bridge	LFR Girder	LFR Limit State	LRFR Girder	LRFR Limit State
A5037	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6059	Exterior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6355	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6121	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A6122	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A6458	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A6632	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A4236	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A6733	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6520	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6381	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6775	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6372	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A4378	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6519	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6287	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A1154N	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A1178	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A3434	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A7068	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A5230	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A5231	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A3775	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A3867	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6259	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A6678	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6144	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A6496	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6782	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A3357	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A4147	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A5861	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A5862	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
K0610	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A4462	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure

Bridge	LFR Girder	LFR Limit State	LRFR Girder	LRFR Limit State
A7144	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A6909	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A7381	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A7206	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A3793	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6780	Exterior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6784	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6749	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A7277	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A7506	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A6483	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A1153S	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A8005	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A8010	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A8007	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A2948W	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0298	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0072	Exterior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A4191	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0303	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0128	Exterior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0311	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0014	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0166	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0164	Exterior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0491	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0255	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0334	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0272	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0226	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0057	Exterior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0290	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0523	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0267	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0315	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0431	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A7647	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure

Bridge	LFR Girder	LFR Limit State	LRFR Girder	LRFR Limit State
B0100	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0484	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0151	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0287	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0246	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0397	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0470	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0030	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0443	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0197	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A7618	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
R0224	Exterior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6306	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6810	Interior	Design Shear - Concrete	Exterior	STRENGTH-I Concrete Flexure
A3631	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A5034	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A5449	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6755	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A8022	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A7329	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A8020	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
N0385	Exterior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
N0372	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
K0107	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0302	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A4170	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A3745	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A5309	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure

Table E.4: Rating Result for MO3S2

Bridge	LFR Rating Factor	LFR Rating Load (Tons)	LRFR Rating Factor	LRFR Rating Load (Tons)	Ratio LRFR/LFR
A5037	2.31	84.64	2.77	101.51	1.20
A6059	2.57	94.04	2.92	106.83	1.14
A6355	3.06	112.08	2.82	103.24	0.92
A6121	3.24	118.78	3.62	132.49	1.12
A6122	3.25	119.09	3.61	132.43	1.11
A6458	2.44	89.27	2.43	89.18	1.00
A6632	3.01	110.45	3.26	119.57	1.08
A4236	2.61	95.60	2.31	84.49	0.88
A6733	3.07	112.54	3.15	115.35	1.02
A6520	2.26	82.76	2.25	82.38	1.00
A6381	2.90	106.20	2.96	108.51	1.02
A6775	2.73	100.18	2.24	82.16	0.82
A6372	2.90	106.38	2.72	99.57	0.94
A4378	2.76	100.94	2.98	109.25	1.08
A6519	2.72	99.65	2.89	105.91	1.06
A6287	2.58	94.46	2.56	93.62	0.99
A1154N	2.65	97.00	2.79	102.21	1.05
A1178	3.07	112.46	3.34	122.20	1.09
A3434	2.83	103.81	3.04	111.30	1.07
A7068	3.24	118.79	3.40	124.68	1.05
A5230	2.61	95.52	2.75	100.77	1.05
A5231	2.84	103.90	3.14	114.96	1.11
A3775	2.27	83.18	2.66	97.56	1.17
A3867	2.32	84.93	2.45	89.60	1.05
A6259	3.26	119.31	3.34	122.33	1.03
A6678	2.98	109.21	2.83	103.55	0.95
A6144	3.27	119.76	3.05	111.63	0.93
A6496	2.21	80.94	1.87	68.41	0.85
A6782	2.84	104.21	2.83	103.66	0.99
A3357	2.64	96.77	2.30	84.27	0.87
A4147	2.53	92.59	2.81	102.77	1.11
A5861	2.55	93.40	2.63	96.28	1.03
A5862	2.56	93.93	2.64	96.76	1.03
K0610	2.72	99.72	3.03	111.00	1.11

Bridge	LFR Rating Factor	LFR Rating Load (Tons)	LRFR Rating Factor	LRFR Rating Load (Tons)	Ratio LRFR/LFR
A4462	2.63	96.27	2.86	104.73	1.09
A7144	3.16	115.86	3.02	110.47	0.95
A6909	3.32	121.60	3.00	109.78	0.90
A7381	3.42	125.27	3.56	130.48	1.04
A7206	3.07	112.32	3.09	113.24	1.01
A3793	2.96	108.52	3.43	125.59	1.16
A6780	2.77	101.38	2.34	85.62	0.84
A6784	2.33	85.40	2.41	88.31	1.03
A6749	2.73	99.97	2.76	101.13	1.01
A7277	2.99	109.42	3.03	110.95	1.01
A7506	2.69	98.69	2.95	108.18	1.10
A6483	2.99	109.52	3.20	117.07	1.07
A1153S	2.75	100.56	2.80	102.62	1.02
A8005	3.25	118.95	3.02	110.58	0.93
A8010	2.65	97.07	2.76	101.06	1.04
A8007	3.32	121.47	2.54	92.90	0.76
A2948W	2.43	89.08	2.18	79.79	0.90
B0298	3.45	126.32	3.10	113.44	0.90
B0072	2.75	100.72	2.50	91.65	0.91
A4191	2.90	106.32	2.67	97.75	0.92
B0303	3.92	143.65	3.89	142.63	0.99
B0128	2.57	94.05	2.56	93.68	1.00
B0311	3.14	115.05	3.47	127.01	1.10
B0014	2.31	84.79	2.29	83.72	0.99
B0166	2.44	89.56	2.28	83.41	0.93
B0164	2.75	100.58	2.35	86.22	0.86
B0491	3.18	116.59	3.16	115.85	0.99
B0255	3.55	129.89	3.50	128.38	0.99
B0334	3.94	144.31	3.76	137.91	0.96
B0272	3.32	121.79	3.01	110.39	0.91
B0226	3.84	140.56	3.73	136.79	0.97
B0057	2.90	106.22	3.15	115.40	1.09
B0290	2.43	89.15	2.36	86.59	0.97
B0523	3.05	111.89	3.60	132.01	1.18
B0267	2.76	101.01	2.35	86.15	0.85
B0315	3.62	132.56	3.60	132.04	1.00

Bridge	LFR Rating Factor	LFR Rating Load (Tons)	LRFR Rating Factor	LRFR Rating Load (Tons)	Ratio LRFR/LFR
B0431	3.27	119.89	2.54	93.08	0.78
A7647	3.46	126.86	3.22	117.88	0.93
B0100	2.40	87.79	2.35	86.04	0.98
B0484	2.34	85.66	2.23	81.52	0.95
B0151	2.74	100.29	2.62	95.93	0.96
B0287	2.32	85.08	2.33	85.30	1.00
B0246	2.40	87.79	2.45	89.72	1.02
B0397	2.40	87.79	2.35	86.04	0.98
B0470	2.43	89.15	2.22	81.35	0.91
B0030	2.34	85.79	2.20	80.48	0.94
B0443	2.43	88.88	2.49	91.07	1.02
B0197	2.33	85.39	2.41	88.46	1.04
A7618	2.95	108.09	2.45	89.91	0.83
R0224	2.39	87.50	2.03	74.32	0.85
A6306	2.93	107.39	3.27	119.94	1.12
A6810	2.21	80.85	2.03	74.27	0.92
A3631	1.74	63.81	2.28	83.43	1.31
A5034	2.23	81.76	2.36	86.46	1.06
A5449	2.99	109.45	3.48	127.42	1.16
A6755	3.50	128.10	3.57	130.61	1.02
A8022	3.24	118.71	3.15	115.52	0.97
A7329	3.22	118.12	2.89	105.84	0.90
A8020	3.07	112.37	3.00	109.92	0.98
N0385	2.47	90.52	1.97	72.04	0.80
N0372	2.27	83.18	2.05	75.21	0.90
K0107	1.94	71.05	1.58	57.99	0.82
B0302	3.85	140.97	3.61	132.24	0.94
A4170	2.95	107.93	2.85	104.29	0.97
A3745	2.87	105.17	2.37	86.89	0.83
A5309	3.18	116.68	3.41	124.74	1.07

Table E.5: Governing Girder and Limit State Result for MO3S2

Bridge	LFR Girder	LFR Limit State	LRFR Girder	LRFR Limit State
A5037	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6059	Exterior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Shear
A6355	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6121	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A6122	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A6458	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A6632	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A4236	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A6733	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6520	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6381	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6775	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6372	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A4378	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6519	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6287	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A1154N	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A1178	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A3434	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Shear
A7068	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A5230	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A5231	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A3775	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A3867	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6259	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A6678	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6144	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A6496	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6782	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A3357	Exterior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A4147	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A5861	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A5862	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
K0610	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A4462	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure

Bridge	LFR Girder	LFR Limit State	LRFR Girder	LRFR Limit State
A7144	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6909	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A7381	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A7206	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A3793	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6780	Exterior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6784	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6749	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A7277	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A7506	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A6483	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A1153S	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A8005	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A8010	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A8007	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A2948W	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0298	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0072	Exterior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A4191	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0303	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0128	Exterior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0311	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0014	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0166	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0164	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0491	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0255	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0334	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0272	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0226	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0057	Exterior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0290	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0523	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0267	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0315	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0431	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A7647	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure

Bridge	LFR Girder	LFR Limit State	LRFR Girder	LRFR Limit State
B0100	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0484	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Shear
B0151	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Shear
B0287	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0246	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0397	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0470	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Shear
B0030	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0443	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0197	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A7618	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
R0224	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6306	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6810	Interior	Design Shear - Concrete	Interior	STRENGTH-I Concrete Flexure
A3631	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A5034	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A5449	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6755	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A8022	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A7329	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A8020	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
N0385	Exterior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
N0372	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
K0107	Exterior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0302	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A4170	Exterior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A3745	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A5309	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure

Table E.6: Rating Result for CZSU

Bridge	LFR Rating Factor	LFR Rating Load (Tons)	LRFR Rating Factor	LRFR Rating Load (Tons)	Ratio LRFR /LFR
A6458	1.44	58.78	1.67	68.01	1.16
A4236	1.51	61.45	1.31	53.27	0.87
A6372	2.27	92.75	2.13	86.95	0.94
A1154N	1.47	60.15	1.55	63.39	1.05
A1178	1.91	77.79	2.39	97.43	1.25
A3434	1.68	68.64	1.85	75.41	1.10
A7068	2.04	83.11	2.14	87.23	1.05
A6259	2.44	99.58	2.50	102.10	1.03
A6678	2.01	81.98	1.91	77.73	0.95
A6496	1.59	64.97	1.35	55.04	0.85
A6782	2.15	87.69	2.33	95.07	1.08
A4147	1.59	64.96	1.77	72.11	1.11
A5861	1.68	68.48	1.90	77.40	1.13
A5862	1.67	67.96	1.90	77.34	1.14
K0610	1.54	62.74	1.71	69.82	1.11
A6909	1.92	78.37	2.07	84.34	1.08
A7381	2.56	104.37	2.66	108.71	1.04
A6780	2.31	94.08	1.95	79.46	0.84
A7506	2.02	82.36	2.31	94.19	1.14
A6483	2.04	83.04	2.18	88.76	1.07
A1153S	1.56	63.74	1.70	69.26	1.09
A8005	2.57	104.85	2.39	97.48	0.93
A8010	1.91	77.70	1.98	80.91	1.04
A8007	2.63	107.12	2.01	81.92	0.76
A4191	2.35	95.89	2.16	88.16	0.92
B0303	2.27	92.78	2.26	92.12	0.99
B0334	2.43	99.21	2.28	93.05	0.94
B0226	2.15	87.63	2.09	85.28	0.97
B0315	2.06	83.83	2.05	83.57	1.00
A7647	2.25	91.73	2.09	85.23	0.93
A7618	2.25	91.77	1.87	76.34	0.83
A3631	1.07	43.52	1.39	56.89	1.31
A6755	2.62	106.79	2.67	108.88	1.02
A8022	2.16	87.94	2.30	93.94	1.07

Bridge	LFR Rating Factor	LFR Rating Load (Tons)	LRFR Rating Factor	LRFR Rating Load (Tons)	Ratio LRFR /LFR
A7329	2.61	106.64	2.41	98.35	0.92
A8020	2.36	96.25	2.31	94.15	0.98
K0107	1.70	69.48	1.39	56.70	0.82
B0302	2.21	90.10	2.08	84.76	0.94
A4170	2.36	96.35	2.29	93.56	0.97
A3745	2.24	91.34	1.85	75.47	0.83
A5309	1.95	79.72	2.09	85.18	1.07

Table E.7: Governing Girder and Limit State Result for CZSU

Bridge	LFR Girder	LFR Limit State	LRFR Girder	LRFR Limit State
A6458	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A4236	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A6372	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A1154N	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A1178	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A3434	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A7068	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6259	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A6678	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6496	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6782	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A4147	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A5861	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A5862	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
K0610	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A6909	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A7381	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6780	Exterior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A7506	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A6483	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A1153S	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A8005	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A8010	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A8007	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A4191	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0303	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0334	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0226	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0315	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A7647	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A7618	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A3631	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6755	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A8022	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A7329	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure

Bridge	LFR Girder	LFR Limit State	LRFR Girder	LRFR Limit State
A8020	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
K0107	Exterior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0302	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A4170	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A3745	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A5309	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure

Table E.8: Rating Result for CZRT

Bridge	LFR Rating Factor	LFR Rating Load (Tons)	LRFR Rating Factor	LRFR Rating Load (Tons)	Ratio LRFR/LFR
A6458	1.82	92.64	1.84	93.83	1.01
A4236	1.84	93.59	1.59	81.14	0.87
A6372	1.97	100.52	1.85	94.10	0.94
A1154N	1.69	86.34	1.79	91.14	1.06
A1178	1.99	101.24	2.18	111.08	1.10
A3434	1.80	91.60	1.97	100.67	1.10
A7068	2.08	105.93	2.18	111.18	1.05
A6259	2.21	112.51	2.26	115.36	1.03
A6678	1.92	97.77	1.82	143.67	1.47
A6496	1.48	75.33	1.25	63.80	0.85
A6782	2.33	118.93	2.32	118.32	0.99
A4147	1.63	83.08	1.81	92.21	1.11
A5861	1.92	97.97	2.10	106.90	1.09
A5862	1.91	97.21	2.11	107.46	1.11
K0610	1.71	87.31	1.91	97.16	1.11
A6909	2.10	106.85	2.25	114.95	1.08
A7381	2.32	118.12	2.41	123.01	1.04
A6780	1.93	98.28	1.63	83.03	0.84
A7506	2.01	102.46	2.20	112.30	1.10
A6483	1.93	98.43	2.06	105.21	1.07
A1153S	1.75	89.35	1.90	97.10	1.09
A8005	2.23	113.58	2.07	105.57	0.93
A8010	1.75	89.20	1.82	92.87	1.04
A8007	2.27	115.97	1.74	88.69	0.76
A4191	2.00	101.75	1.83	93.53	0.92
B0303	2.72	138.72	2.69	137.39	0.99
B0334	2.49	127.19	2.32	118.47	0.93
B0226	2.36	120.46	2.30	117.30	0.97
B0315	2.34	119.34	2.38	121.23	1.02
A7647	2.19	111.74	2.04	103.84	0.93
A7618	1.99	101.69	1.66	84.61	0.83
A3631	1.11	56.81	1.46	74.26	1.31
A6755	2.37	120.77	2.41	123.11	1.02
A8022	2.12	108.02	2.08	106.03	0.98

Bridge	LFR Rating Factor	LFR Rating Load (Tons)	LRFR Rating Factor	LRFR Rating Load (Tons)	Ratio LRFR/LFR
A7329	2.25	114.60	2.01	102.66	0.90
A8020	2.08	106.08	2.04	103.79	0.98
K0107	1.44	73.24	1.17	59.77	0.82
B0302	2.33	118.58	2.19	111.59	0.94
A4170	2.01	102.71	1.95	99.25	0.97
A3745	1.94	98.79	1.60	81.65	0.83
A5309	2.08	106.23	2.18	111.03	1.05

Table E.9: Governing Girder and Limit State Result for CZRT

Bridge	LFR Girder	LFR Limit State	LRFR Girder	LRFR Limit State
A6458	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A4236	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A6372	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A1154N	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A1178	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A3434	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A7068	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6259	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A6678	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6496	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6782	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A4147	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A5861	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A5862	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
K0610	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A6909	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A7381	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6780	Exterior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A7506	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A6483	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A1153S	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A8005	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A8010	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A8007	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A4191	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0303	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0334	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0226	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0315	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A7647	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A7618	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A3631	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6755	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A8022	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A7329	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure

Bridge	LFR Girder	LFR Limit State	LRFR Girder	LRFR Limit State
A8020	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
K0107	Exterior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0302	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A4170	Exterior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A3745	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A5309	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure

Table E.10: Rating Result for SU5

Bridge	LFR Rating Factor	LFR Rating Load (Tons)	LRFR Rating Factor	LRFR Rating Load (Tons)	Ratio LRFR/LFR
A5037	2.02	62.47	2.42	74.93	1.20
A6059	1.89	58.65	2.29	70.87	1.21
A6355	2.99	92.55	2.75	85.25	0.92
A6121	2.67	82.61	2.97	92.14	1.12
A6122	2.67	82.82	2.97	92.10	1.11
A6458	1.90	58.79	2.19	68.02	1.16
A6632	2.55	79.15	2.76	85.69	1.08
A4236	1.98	61.45	1.72	53.27	0.87
A6733	3.01	93.21	3.08	95.54	1.02
A6520	1.99	61.60	2.15	66.57	1.08
A6381	2.83	87.56	2.89	89.47	1.02
A6775	2.61	80.79	2.33	72.06	0.89
A6372	2.99	92.75	2.81	86.95	0.94
A4378	2.29	70.85	2.47	76.68	1.08
A6519	2.36	73.12	2.51	77.72	1.06
A6287	2.10	65.22	2.31	71.47	1.10
A1154N	1.94	60.16	2.05	63.39	1.05
A1178	2.51	77.80	3.14	97.42	1.25
A3434	2.21	68.64	2.43	75.42	1.10
A7068	2.68	83.12	2.81	87.24	1.05
A5230	1.93	59.96	2.09	64.63	1.08
A5231	2.62	81.15	2.90	89.79	1.11
A3775	1.83	56.74	2.27	70.21	1.24
A3867	2.02	62.75	2.14	66.20	1.05
A6259	3.21	99.58	3.29	102.11	1.03
A6678	2.65	81.99	2.51	77.74	0.95
A6144	2.77	85.75	2.60	80.69	0.94
A6496	2.10	64.97	1.78	55.04	0.85
A6782	2.83	87.69	3.07	95.08	1.08
A3357	2.06	63.95	2.44	75.66	1.18
A4147	2.10	64.97	2.33	72.11	1.11
A5861	2.21	68.49	2.50	77.41	1.13
A5862	2.19	67.97	2.50	77.34	1.14
K0610	2.02	62.74	2.25	69.82	1.11

Bridge	LFR Rating Factor	LFR Rating Load (Tons)	LRFR Rating Factor	LRFR Rating Load (Tons)	Ratio LRFR/LFR
A4462	1.97	61.06	2.14	66.41	1.09
A7144	2.48	76.73	2.40	74.33	0.97
A6909	2.53	78.38	2.72	84.34	1.08
A7381	3.37	104.38	3.51	108.71	1.04
A7206	2.60	80.61	2.62	81.27	1.01
A3793	2.53	78.28	2.92	90.59	1.16
A6780	3.04	94.08	2.56	79.46	0.84
A6784	2.17	67.20	2.24	69.49	1.03
A6749	2.26	70.16	2.47	76.51	1.09
A7277	2.14	66.29	2.35	72.89	1.10
A7506	2.66	82.37	3.04	94.19	1.14
A6483	2.68	83.04	2.86	88.76	1.07
A1153S	2.06	63.74	2.23	69.26	1.09
A8005	3.38	104.86	3.15	97.49	0.93
A8010	2.51	77.71	2.61	80.91	1.04
A8007	3.46	107.12	2.64	81.92	0.76
A2948W	2.04	63.24	2.43	75.44	1.19
B0298	3.25	100.63	2.92	90.37	0.90
B0072	2.21	68.39	1.97	61.17	0.89
A4191	3.09	95.89	2.84	88.16	0.92
B0303	2.99	92.79	2.97	92.13	0.99
B0128	2.24	69.40	1.98	61.35	0.88
B0311	2.56	79.22	2.98	92.27	1.16
B0014	2.32	71.80	2.29	70.90	0.99
B0166	2.10	65.09	1.96	60.62	0.93
B0164	2.20	68.29	1.79	55.46	0.81
B0491	2.94	91.22	2.92	90.64	0.99
B0255	2.93	90.91	2.89	89.54	0.98
B0334	3.20	99.23	3.00	93.06	0.94
B0272	2.45	75.93	2.41	74.70	0.98
B0226	2.83	87.64	2.75	85.29	0.97
B0057	2.93	90.72	3.18	98.56	1.09
B0290	2.09	64.79	2.03	62.93	0.97
B0523	2.29	70.82	2.70	83.56	1.18
B0267	2.13	66.04	1.80	55.65	0.84
B0315	2.70	83.84	2.70	83.58	1.00

Bridge	LFR Rating Factor	LFR Rating Load (Tons)	LRFR Rating Factor	LRFR Rating Load (Tons)	Ratio LRFR/LFR
B0431	3.55	110.00	2.76	85.40	0.78
A7647	2.96	91.73	2.75	85.24	0.93
B0100	2.26	69.94	2.21	68.55	0.98
B0484	2.07	64.15	2.02	62.75	0.98
B0151	2.20	68.09	2.15	66.49	0.98
B0287	2.28	70.62	2.28	70.80	1.00
B0246	2.26	69.94	2.31	71.48	1.02
B0397	2.26	69.94	2.21	68.55	0.98
B0470	2.09	64.79	1.79	55.46	0.86
B0030	2.07	64.25	1.79	55.51	0.86
B0443	2.08	64.59	1.89	58.58	0.91
B0197	2.06	63.95	2.14	66.25	1.04
A7618	2.96	91.78	2.46	76.34	0.83
R0224	2.38	73.78	1.95	60.52	0.82
A6306	2.18	67.66	2.41	74.75	1.10
A6810	2.13	65.91	1.95	60.51	0.92
A3631	1.40	43.53	1.84	56.90	1.31
A5034	1.72	53.16	1.81	56.21	1.06
A5449	2.71	83.99	3.15	97.78	1.16
A6755	3.45	106.80	3.51	108.88	1.02
A8022	2.84	87.95	3.03	93.95	1.07
A7329	3.44	106.64	3.17	98.35	0.92
A8020	3.11	96.26	3.04	94.16	0.98
N0385	1.89	58.44	1.51	46.91	0.80
N0372	1.73	53.57	1.56	48.44	0.90
K0107	2.24	69.49	1.83	56.71	0.82
B0302	2.91	90.10	2.73	84.76	0.94
A4170	3.11	96.36	3.02	93.56	0.97
A3745	2.95	91.34	2.43	75.47	0.83
A5309	2.57	79.73	2.75	85.18	1.07

Table E.11: Governing Girder and Limit State Result for SU5

Bridge	LFR Girder	LFR Limit State	LRFR Girder	LRFR Limit State
A5037	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6059	Exterior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6355	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6121	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A6122	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A6458	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A6632	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A4236	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A6733	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6520	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6381	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6775	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6372	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A4378	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6519	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6287	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A1154N	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A1178	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A3434	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A7068	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A5230	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A5231	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A3775	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A3867	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6259	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A6678	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6144	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A6496	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6782	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A3357	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A4147	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A5861	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A5862	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
K0610	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A4462	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure

Bridge	LFR Girder	LFR Limit State	LRFR Girder	LRFR Limit State
A7144	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A6909	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A7381	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A7206	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A3793	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6780	Exterior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6784	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6749	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A7277	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A7506	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A6483	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A1153S	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A8005	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A8010	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A8007	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A2948W	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0298	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0072	Exterior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A4191	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0303	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0128	Exterior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0311	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0014	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0166	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0164	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0491	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0255	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0334	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0272	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0226	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0057	Exterior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0290	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0523	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0267	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0315	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0431	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A7647	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure

Bridge	LFR Girder	LFR Limit State	LRFR Girder	LRFR Limit State
B0100	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0484	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0151	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0287	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0246	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0397	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0470	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0030	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
B0443	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0197	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A7618	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
R0224	Exterior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6306	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6810	Interior	Design Shear - Concrete	Exterior	STRENGTH-I Concrete Flexure
A3631	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A5034	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A5449	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A6755	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A8022	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
A7329	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A8020	Interior	Design Flexure - Concrete	Interior	STRENGTH-I Concrete Flexure
N0385	Exterior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
N0372	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
K0107	Exterior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
B0302	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A4170	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A3745	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure
A5309	Interior	Design Flexure - Concrete	Exterior	STRENGTH-I Concrete Flexure

Table E.12: Rating Results for SU4

Bridge	Rating Factor	Rating Load (tons)	Limit State
A5037	2.68	72.22	STRENGTH-I Concrete Flexure
A6059	2.47	66.72	STRENGTH-I Concrete Flexure
A6355	3.08	83.18	STRENGTH-I Concrete Flexure
A6121	3.25	87.85	STRENGTH-I Concrete Flexure
A6122	3.25	87.81	STRENGTH-I Concrete Flexure
A6458	2.32	62.63	STRENGTH-I Concrete Flexure
A6632	3.04	81.99	STRENGTH-I Concrete Flexure
A4236	1.84	49.79	STRENGTH-I Concrete Flexure
A6733	3.45	93.25	STRENGTH-I Concrete Flexure
A6520	2.32	62.75	STRENGTH-I Concrete Flexure
A6381	3.23	87.27	STRENGTH-I Concrete Flexure
A6775	2.64	71.21	STRENGTH-I Concrete Flexure
A6372	3.18	85.93	STRENGTH-I Concrete Flexure
A4378	2.72	73.46	STRENGTH-I Concrete Flexure
A6519	2.76	74.45	STRENGTH-I Concrete Flexure
A6287	2.47	66.57	STRENGTH-I Concrete Flexure
A1154N	2.22	59.88	STRENGTH-I Concrete Flexure
A1178	3.54	95.56	STRENGTH-I Concrete Flexure
A3434	2.66	71.88	STRENGTH-I Concrete Flexure
A7068	3.08	83.16	STRENGTH-I Concrete Flexure
A5230	2.24	60.57	STRENGTH-I Concrete Flexure
A5231	3.22	87.00	STRENGTH-I Concrete Flexure
A3775	2.48	67.06	STRENGTH-I Concrete Flexure
A3867	2.36	63.81	STRENGTH-I Concrete Flexure
A6259	3.70	99.77	STRENGTH-I Concrete Flexure
A6678	2.78	74.93	STRENGTH-I Concrete Flexure
A6144	2.88	77.69	STRENGTH-I Concrete Flexure
A6496	1.98	53.52	STRENGTH-I Concrete Flexure
A6782	3.31	89.48	STRENGTH-I Concrete Flexure
A3357	2.63	71.12	STRENGTH-I Concrete Flexure
A4147	2.56	69.09	STRENGTH-I Concrete Flexure
A5861	2.71	73.12	STRENGTH-I Concrete Flexure
A5862	2.71	73.06	STRENGTH-I Concrete Flexure
K0610	2.45	66.21	STRENGTH-I Concrete Flexure
A4462	2.33	63.00	STRENGTH-I Concrete Flexure

Bridge	Rating Factor	Rating Load (tons)	Limit State
A7144	2.60	70.28	STRENGTH-I Concrete Flexure
A6909	2.97	80.18	STRENGTH-I Concrete Flexure
A7381	3.93	106.21	STRENGTH-I Concrete Flexure
A7206	2.89	78.12	STRENGTH-I Concrete Flexure
A3793	3.23	87.09	STRENGTH-I Concrete Flexure
A6780	2.92	78.90	STRENGTH-I Concrete Flexure
A6784	2.49	67.33	STRENGTH-I Concrete Flexure
A6749	2.72	73.31	STRENGTH-I Concrete Flexure
A7277	2.52	68.14	STRENGTH-I Concrete Flexure
A7506	3.34	90.08	STRENGTH-I Concrete Flexure
A6483	3.17	85.65	STRENGTH-I Concrete Flexure
A1153S	2.43	65.65	STRENGTH-I Concrete Flexure
A8005	3.55	95.78	STRENGTH-I Concrete Flexure
A8010	2.91	78.55	STRENGTH-I Concrete Flexure
A8007	2.98	80.49	STRENGTH-I Concrete Flexure
A2948W	2.67	72.17	STRENGTH-I Concrete Flexure
B0298	3.25	87.69	STRENGTH-I Concrete Flexure
B0072	2.13	57.52	STRENGTH-I Concrete Flexure
A4191	3.24	87.36	STRENGTH-I Concrete Flexure
B0303	3.14	84.74	STRENGTH-I Concrete Flexure
B0128	2.14	57.69	STRENGTH-I Concrete Flexure
B0311	3.24	87.39	STRENGTH-I Concrete Flexure
B0014	2.57	69.31	STRENGTH-I Concrete Flexure
B0166	2.16	58.23	STRENGTH-I Concrete Flexure
B0164	1.95	52.62	STRENGTH-I Concrete Flexure
B0491	3.25	87.77	STRENGTH-I Concrete Flexure
B0255	3.17	85.64	STRENGTH-I Concrete Flexure
B0334	3.28	88.64	STRENGTH-I Concrete Flexure
B0272	2.60	70.24	STRENGTH-I Concrete Flexure
B0226	2.97	80.20	STRENGTH-I Concrete Flexure
B0057	3.57	96.44	STRENGTH-I Concrete Flexure
B0290	2.24	60.44	STRENGTH-I Concrete Flexure
B0523	2.88	77.84	STRENGTH-I Concrete Flexure
B0267	1.90	51.18	STRENGTH-I Concrete Flexure
B0315	2.88	77.86	STRENGTH-I Concrete Flexure
B0431	3.14	84.86	STRENGTH-I Concrete Flexure
A7647	3.03	81.83	STRENGTH-I Concrete Flexure

Bridge	Rating Factor	Rating Load (tons)	Limit State
B0100	2.46	66.51	STRENGTH-I Concrete Flexure
B0484	2.24	60.47	STRENGTH-I Concrete Flexure
B0151	2.26	61.11	STRENGTH-I Concrete Flexure
B0287	2.56	69.04	STRENGTH-I Concrete Flexure
B0246	2.57	69.35	STRENGTH-I Concrete Flexure
B0397	2.46	66.51	STRENGTH-I Concrete Flexure
B0470	1.95	52.62	STRENGTH-I Concrete Flexure
B0030	1.89	51.05	STRENGTH-I Concrete Flexure
B0443	2.06	55.58	STRENGTH-I Concrete Flexure
B0197	2.36	63.84	STRENGTH-I Concrete Flexure
A7618	2.77	74.64	STRENGTH-I Concrete Flexure
R0224	2.07	55.97	STRENGTH-I Concrete Flexure
A6306	2.61	70.39	STRENGTH-I Concrete Flexure
A6810	2.15	57.95	STRENGTH-I Concrete Flexure
A3631	2.01	54.33	STRENGTH-I Concrete Flexure
A5034	1.91	51.67	STRENGTH-I Concrete Flexure
A5449	3.50	94.59	STRENGTH-I Concrete Flexure
A6755	3.94	106.38	STRENGTH-I Concrete Flexure
A8022	3.36	90.61	STRENGTH-I Concrete Flexure
A7329	3.62	97.66	STRENGTH-I Concrete Flexure
A8020	3.41	92.17	STRENGTH-I Concrete Flexure
N0385	1.61	43.42	STRENGTH-I Concrete Flexure
N0372	1.65	44.64	STRENGTH-I Concrete Flexure
K0107	2.15	57.92	STRENGTH-I Concrete Flexure
B0302	2.97	80.28	STRENGTH-I Concrete Flexure
A4170	3.43	92.73	STRENGTH-I Concrete Flexure
A3745	2.76	74.47	STRENGTH-I Concrete Flexure
A5309	3.01	81.37	STRENGTH-I Concrete Flexure

Table E.13: Rating Results for SU5

Bridge	Rating Factor	Rating Load (tons)	Limit State
A5037	2.42	74.93	STRENGTH-I Concrete Flexure
A6059	2.29	70.87	STRENGTH-I Concrete Flexure
A6355	2.75	85.25	STRENGTH-I Concrete Flexure
A6121	2.97	92.14	STRENGTH-I Concrete Flexure
A6122	2.97	92.10	STRENGTH-I Concrete Flexure
A6458	2.19	68.02	STRENGTH-I Concrete Flexure
A6632	2.76	85.69	STRENGTH-I Concrete Flexure
A4236	1.72	53.27	STRENGTH-I Concrete Flexure
A6733	3.08	95.54	STRENGTH-I Concrete Flexure
A6520	2.15	66.57	STRENGTH-I Concrete Flexure
A6381	2.89	89.47	STRENGTH-I Concrete Flexure
A6775	2.33	72.06	STRENGTH-I Concrete Flexure
A6372	2.81	86.95	STRENGTH-I Concrete Flexure
A4378	2.47	76.68	STRENGTH-I Concrete Flexure
A6519	2.51	77.72	STRENGTH-I Concrete Flexure
A6287	2.31	71.47	STRENGTH-I Concrete Flexure
A1154N	2.05	63.39	STRENGTH-I Concrete Flexure
A1178	3.14	97.42	STRENGTH-I Concrete Flexure
A3434	2.43	75.42	STRENGTH-I Concrete Flexure
A7068	2.81	87.24	STRENGTH-I Concrete Flexure
A5230	2.09	64.63	STRENGTH-I Concrete Flexure
A5231	2.90	89.79	STRENGTH-I Concrete Flexure
A3775	2.27	70.21	STRENGTH-I Concrete Flexure
A3867	2.14	66.20	STRENGTH-I Concrete Flexure
A6259	3.29	102.11	STRENGTH-I Concrete Flexure
A6678	2.51	77.74	STRENGTH-I Concrete Flexure
A6144	2.60	80.69	STRENGTH-I Concrete Flexure
A6496	1.78	55.04	STRENGTH-I Concrete Flexure
A6782	3.07	95.08	STRENGTH-I Concrete Flexure
A3357	2.44	75.66	STRENGTH-I Concrete Flexure
A4147	2.33	72.11	STRENGTH-I Concrete Flexure
A5861	2.50	77.41	STRENGTH-I Concrete Flexure
A5862	2.50	77.34	STRENGTH-I Concrete Flexure
K0610	2.25	69.82	STRENGTH-I Concrete Flexure
A4462	2.14	66.41	STRENGTH-I Concrete Flexure

Bridge	Rating Factor	Rating Load (tons)	Limit State
A7144	2.40	74.33	STRENGTH-I Concrete Flexure
A6909	2.72	84.34	STRENGTH-I Concrete Flexure
A7381	3.51	108.71	STRENGTH-I Concrete Flexure
A7206	2.62	81.27	STRENGTH-I Concrete Flexure
A3793	2.92	90.59	STRENGTH-I Concrete Flexure
A6780	2.56	79.46	STRENGTH-I Concrete Flexure
A6784	2.24	69.49	STRENGTH-I Concrete Flexure
A6749	2.47	76.51	STRENGTH-I Concrete Flexure
A7277	2.35	72.89	STRENGTH-I Concrete Flexure
A7506	3.04	94.19	STRENGTH-I Concrete Flexure
A6483	2.86	88.76	STRENGTH-I Concrete Flexure
A1153S	2.23	69.26	STRENGTH-I Concrete Flexure
A8005	3.15	97.49	STRENGTH-I Concrete Flexure
A8010	2.61	80.91	STRENGTH-I Concrete Flexure
A8007	2.64	81.92	STRENGTH-I Concrete Flexure
A2948W	2.43	75.44	STRENGTH-I Concrete Flexure
B0298	2.92	90.37	STRENGTH-I Concrete Flexure
B0072	1.97	61.17	STRENGTH-I Concrete Flexure
A4191	2.84	88.16	STRENGTH-I Concrete Flexure
B0303	2.97	92.13	STRENGTH-I Concrete Flexure
B0128	1.98	61.35	STRENGTH-I Concrete Flexure
B0311	2.98	92.27	STRENGTH-I Concrete Flexure
B0014	2.29	70.90	STRENGTH-I Concrete Flexure
B0166	1.96	60.62	STRENGTH-I Concrete Flexure
B0164	1.79	55.46	STRENGTH-I Concrete Flexure
B0491	2.92	90.64	STRENGTH-I Concrete Flexure
B0255	2.89	89.54	STRENGTH-I Concrete Flexure
B0334	3.00	93.06	STRENGTH-I Concrete Flexure
B0272	2.41	74.70	STRENGTH-I Concrete Flexure
B0226	2.75	85.29	STRENGTH-I Concrete Flexure
B0057	3.18	98.56	STRENGTH-I Concrete Flexure
B0290	2.03	62.93	STRENGTH-I Concrete Flexure
B0523	2.70	83.56	STRENGTH-I Concrete Flexure
B0267	1.80	55.65	STRENGTH-I Concrete Flexure
B0315	2.70	83.58	STRENGTH-I Concrete Flexure
B0431	2.76	85.40	STRENGTH-I Concrete Flexure
A7647	2.75	85.24	STRENGTH-I Concrete Flexure

Bridge	Rating Factor	Rating Load (tons)	Limit State
B0100	2.21	68.55	STRENGTH-I Concrete Flexure
B0484	2.02	62.75	STRENGTH-I Concrete Flexure
B0151	2.15	66.49	STRENGTH-I Concrete Flexure
B0287	2.28	70.80	STRENGTH-I Concrete Flexure
B0246	2.31	71.48	STRENGTH-I Concrete Flexure
B0397	2.21	68.55	STRENGTH-I Concrete Flexure
B0470	1.79	55.46	STRENGTH-I Concrete Flexure
B0030	1.79	55.51	STRENGTH-I Concrete Flexure
B0443	1.89	58.58	STRENGTH-I Concrete Flexure
B0197	2.14	66.25	STRENGTH-I Concrete Flexure
A7618	2.46	76.34	STRENGTH-I Concrete Flexure
R0224	1.95	60.52	STRENGTH-I Concrete Flexure
A6306	2.41	74.75	STRENGTH-I Concrete Flexure
A6810	1.95	60.51	STRENGTH-I Concrete Flexure
A3631	1.84	56.90	STRENGTH-I Concrete Flexure
A5034	1.81	56.21	STRENGTH-I Concrete Flexure
A5449	3.15	97.78	STRENGTH-I Concrete Flexure
A6755	3.51	108.88	STRENGTH-I Concrete Flexure
A8022	3.03	93.95	STRENGTH-I Concrete Flexure
A7329	3.17	98.35	STRENGTH-I Concrete Flexure
A8020	3.04	94.16	STRENGTH-I Concrete Flexure
N0385	1.51	46.91	STRENGTH-I Concrete Flexure
N0372	1.56	48.44	STRENGTH-I Concrete Flexure
K0107	1.83	56.71	STRENGTH-I Concrete Flexure
B0302	2.73	84.76	STRENGTH-I Concrete Flexure
A4170	3.02	93.56	STRENGTH-I Concrete Flexure
A3745	2.43	75.47	STRENGTH-I Concrete Flexure
A5309	2.75	85.18	STRENGTH-I Concrete Flexure

Table E.14: Rating Results for SU6

Bridge	Rating Factor	Rating Load (tons)	Limit State
A5037	2.18	75.82	STRENGTH-I Concrete Flexure
A6059	2.09	72.53	STRENGTH-I Concrete Flexure
A6355	2.47	85.88	STRENGTH-I Concrete Flexure
A6121	2.68	93.01	STRENGTH-I Concrete Flexure
A6122	2.68	92.97	STRENGTH-I Concrete Flexure
A6458	2.00	69.55	STRENGTH-I Concrete Flexure
A6632	2.49	86.43	STRENGTH-I Concrete Flexure
A4236	1.58	54.88	STRENGTH-I Concrete Flexure
A6733	2.77	96.21	STRENGTH-I Concrete Flexure
A6520	1.96	68.15	STRENGTH-I Concrete Flexure
A6381	2.59	90.11	STRENGTH-I Concrete Flexure
A6775	2.09	72.48	STRENGTH-I Concrete Flexure
A6372	2.51	87.15	STRENGTH-I Concrete Flexure
A4378	2.24	77.77	STRENGTH-I Concrete Flexure
A6519	2.25	78.32	STRENGTH-I Concrete Flexure
A6287	2.13	73.83	STRENGTH-I Concrete Flexure
A1154N	1.87	64.86	STRENGTH-I Concrete Flexure
A1178	2.82	98.07	STRENGTH-I Concrete Flexure
A3434	2.21	76.75	STRENGTH-I Concrete Flexure
A7068	2.53	88.04	STRENGTH-I Concrete Flexure
A5230	1.91	66.45	STRENGTH-I Concrete Flexure
A5231	2.61	90.64	STRENGTH-I Concrete Flexure
A3775	2.05	71.31	STRENGTH-I Concrete Flexure
A3867	1.93	66.99	STRENGTH-I Concrete Flexure
A6259	2.96	102.82	STRENGTH-I Concrete Flexure
A6678	2.25	78.06	STRENGTH-I Concrete Flexure
A6144	2.36	81.85	STRENGTH-I Concrete Flexure
A6496	1.60	55.49	STRENGTH-I Concrete Flexure
A6782	2.80	97.42	STRENGTH-I Concrete Flexure
A3357	2.21	76.63	STRENGTH-I Concrete Flexure
A4147	2.11	73.14	STRENGTH-I Concrete Flexure
A5861	2.28	79.10	STRENGTH-I Concrete Flexure
A5862	2.27	79.04	STRENGTH-I Concrete Flexure
K0610	2.05	71.21	STRENGTH-I Concrete Flexure
A4462	1.95	67.69	STRENGTH-I Concrete Flexure

Bridge	Rating Factor	Rating Load (tons)	Limit State
A7144	2.19	76.08	STRENGTH-I Concrete Flexure
A6909	2.47	85.93	STRENGTH-I Concrete Flexure
A7381	3.15	109.48	STRENGTH-I Concrete Flexure
A7206	2.37	82.39	STRENGTH-I Concrete Flexure
A3793	2.64	91.76	STRENGTH-I Concrete Flexure
A6780	2.29	79.62	STRENGTH-I Concrete Flexure
A6784	2.01	69.74	STRENGTH-I Concrete Flexure
A6749	2.23	77.60	STRENGTH-I Concrete Flexure
A7277	2.13	74.03	STRENGTH-I Concrete Flexure
A7506	2.73	94.76	STRENGTH-I Concrete Flexure
A6483	2.57	89.12	STRENGTH-I Concrete Flexure
A1153S	2.04	70.71	STRENGTH-I Concrete Flexure
A8005	2.81	97.68	STRENGTH-I Concrete Flexure
A8010	2.34	81.18	STRENGTH-I Concrete Flexure
A8007	2.36	82.08	STRENGTH-I Concrete Flexure
A2948W	2.18	75.84	STRENGTH-I Concrete Flexure
B0298	2.61	90.68	STRENGTH-I Concrete Flexure
B0072	1.77	61.61	STRENGTH-I Concrete Flexure
A4191	2.54	88.34	STRENGTH-I Concrete Flexure
B0303	2.68	93.04	STRENGTH-I Concrete Flexure
B0128	1.78	61.79	STRENGTH-I Concrete Flexure
B0311	2.67	92.85	STRENGTH-I Concrete Flexure
B0014	2.05	71.08	STRENGTH-I Concrete Flexure
B0166	1.75	60.90	STRENGTH-I Concrete Flexure
B0164	1.64	56.90	STRENGTH-I Concrete Flexure
B0491	2.62	90.97	STRENGTH-I Concrete Flexure
B0255	2.59	89.99	STRENGTH-I Concrete Flexure
B0334	2.69	93.58	STRENGTH-I Concrete Flexure
B0272	2.17	75.23	STRENGTH-I Concrete Flexure
B0226	2.47	85.89	STRENGTH-I Concrete Flexure
B0057	2.84	98.80	STRENGTH-I Concrete Flexure
B0290	1.82	63.22	STRENGTH-I Concrete Flexure
B0523	2.42	84.25	STRENGTH-I Concrete Flexure
B0267	1.62	56.19	STRENGTH-I Concrete Flexure
B0315	2.43	84.27	STRENGTH-I Concrete Flexure
B0431	2.47	85.71	STRENGTH-I Concrete Flexure
A7647	2.46	85.64	STRENGTH-I Concrete Flexure

Bridge	Rating Factor	Rating Load (tons)	Limit State
B0100	1.98	68.78	STRENGTH-I Concrete Flexure
B0484	1.81	63.01	STRENGTH-I Concrete Flexure
B0151	1.94	67.45	STRENGTH-I Concrete Flexure
B0287	2.04	71.00	STRENGTH-I Concrete Flexure
B0246	2.06	71.72	STRENGTH-I Concrete Flexure
B0397	1.98	68.78	STRENGTH-I Concrete Flexure
B0470	1.64	56.90	STRENGTH-I Concrete Flexure
B0030	1.61	56.05	STRENGTH-I Concrete Flexure
B0443	1.73	60.10	STRENGTH-I Concrete Flexure
B0197	1.91	66.53	STRENGTH-I Concrete Flexure
A7618	2.20	76.53	STRENGTH-I Concrete Flexure
R0224	1.81	62.87	STRENGTH-I Concrete Flexure
A6306	2.20	76.56	STRENGTH-I Concrete Flexure
A6810	1.76	60.99	STRENGTH-I Concrete Flexure
A3631	1.66	57.78	STRENGTH-I Concrete Flexure
A5034	1.68	58.36	STRENGTH-I Concrete Flexure
A5449	2.84	98.79	STRENGTH-I Concrete Flexure
A6755	3.16	109.65	STRENGTH-I Concrete Flexure
A8022	2.74	95.08	STRENGTH-I Concrete Flexure
A7329	2.84	98.55	STRENGTH-I Concrete Flexure
A8020	2.72	94.38	STRENGTH-I Concrete Flexure
N0385	1.37	47.70	STRENGTH-I Concrete Flexure
N0372	1.41	48.91	STRENGTH-I Concrete Flexure
K0107	1.64	56.83	STRENGTH-I Concrete Flexure
B0302	2.46	85.29	STRENGTH-I Concrete Flexure
A4170	2.71	94.07	STRENGTH-I Concrete Flexure
A3745	2.18	75.85	STRENGTH-I Concrete Flexure
A5309	2.49	86.51	STRENGTH-I Concrete Flexure

Table E.15: Rating Results for SU7

Bridge	Rating Factor	Rating Load (tons)	Limit State
A5037	2.02	78.17	STRENGTH-I Concrete Flexure
A6059	1.98	76.65	STRENGTH-I Concrete Flexure
A6355	2.26	87.54	STRENGTH-I Concrete Flexure
A6121	2.47	95.84	STRENGTH-I Concrete Flexure
A6122	2.47	95.79	STRENGTH-I Concrete Flexure
A6458	1.90	73.73	STRENGTH-I Concrete Flexure
A6632	2.29	88.79	STRENGTH-I Concrete Flexure
A4236	1.51	58.38	STRENGTH-I Concrete Flexure
A6733	2.53	98.02	STRENGTH-I Concrete Flexure
A6520	1.86	71.91	STRENGTH-I Concrete Flexure
A6381	2.37	91.85	STRENGTH-I Concrete Flexure
A6775	1.89	73.06	STRENGTH-I Concrete Flexure
A6372	2.28	88.15	STRENGTH-I Concrete Flexure
A4378	2.08	80.62	STRENGTH-I Concrete Flexure
A6519	2.07	80.29	STRENGTH-I Concrete Flexure
A6287	2.03	78.73	STRENGTH-I Concrete Flexure
A1154N	1.76	68.34	STRENGTH-I Concrete Flexure
A1178	2.57	99.52	STRENGTH-I Concrete Flexure
A3434	2.07	80.12	STRENGTH-I Concrete Flexure
A7068	2.34	90.64	STRENGTH-I Concrete Flexure
A5230	1.82	70.53	STRENGTH-I Concrete Flexure
A5231	2.40	92.89	STRENGTH-I Concrete Flexure
A3775	1.91	74.16	STRENGTH-I Concrete Flexure
A3867	1.78	69.06	STRENGTH-I Concrete Flexure
A6259	2.70	104.70	STRENGTH-I Concrete Flexure
A6678	2.05	79.59	STRENGTH-I Concrete Flexure
A6144	2.19	84.69	STRENGTH-I Concrete Flexure
A6496	1.46	56.66	STRENGTH-I Concrete Flexure
A6782	2.60	100.57	STRENGTH-I Concrete Flexure
A3357	2.03	78.65	STRENGTH-I Concrete Flexure
A4147	1.96	75.82	STRENGTH-I Concrete Flexure
A5861	2.15	83.41	STRENGTH-I Concrete Flexure
A5862	2.15	83.34	STRENGTH-I Concrete Flexure
K0610	1.93	74.74	STRENGTH-I Concrete Flexure
A4462	1.83	70.99	STRENGTH-I Concrete Flexure

Bridge	Rating Factor	Rating Load (tons)	Limit State
A7144	2.07	80.04	STRENGTH-I Concrete Flexure
A6909	2.32	89.95	STRENGTH-I Concrete Flexure
A7381	2.88	111.51	STRENGTH-I Concrete Flexure
A7206	2.20	85.23	STRENGTH-I Concrete Flexure
A3793	2.45	94.83	STRENGTH-I Concrete Flexure
A6780	2.06	79.93	STRENGTH-I Concrete Flexure
A6784	1.83	70.90	STRENGTH-I Concrete Flexure
A6749	2.08	80.44	STRENGTH-I Concrete Flexure
A7277	2.00	77.46	STRENGTH-I Concrete Flexure
A7506	2.50	96.76	STRENGTH-I Concrete Flexure
A6483	2.34	90.81	STRENGTH-I Concrete Flexure
A1153S	1.92	74.31	STRENGTH-I Concrete Flexure
A8005	2.54	98.57	STRENGTH-I Concrete Flexure
A8010	2.13	82.44	STRENGTH-I Concrete Flexure
A8007	2.14	82.83	STRENGTH-I Concrete Flexure
A2948W	2.00	77.65	STRENGTH-I Concrete Flexure
B0298	2.38	92.12	STRENGTH-I Concrete Flexure
B0072	1.64	63.45	STRENGTH-I Concrete Flexure
A4191	2.30	88.96	STRENGTH-I Concrete Flexure
B0303	2.51	97.40	STRENGTH-I Concrete Flexure
B0128	1.65	63.87	STRENGTH-I Concrete Flexure
B0311	2.47	95.58	STRENGTH-I Concrete Flexure
B0014	1.86	71.93	STRENGTH-I Concrete Flexure
B0166	1.61	62.20	STRENGTH-I Concrete Flexure
B0164	1.59	61.44	STRENGTH-I Concrete Flexure
B0491	2.39	92.52	STRENGTH-I Concrete Flexure
B0255	2.38	92.13	STRENGTH-I Concrete Flexure
B0334	2.48	96.03	STRENGTH-I Concrete Flexure
B0272	2.01	77.76	STRENGTH-I Concrete Flexure
B0226	2.29	88.78	STRENGTH-I Concrete Flexure
B0057	2.58	99.91	STRENGTH-I Concrete Flexure
B0290	1.67	64.57	STRENGTH-I Concrete Flexure
B0523	2.26	87.54	STRENGTH-I Concrete Flexure
B0267	1.52	58.83	STRENGTH-I Concrete Flexure
B0315	2.26	87.56	STRENGTH-I Concrete Flexure
B0431	2.22	86.09	STRENGTH-I Concrete Flexure
A7647	2.26	87.50	STRENGTH-I Concrete Flexure

Bridge	Rating Factor	Rating Load (tons)	Limit State
B0100	1.80	69.87	STRENGTH-I Concrete Flexure
B0484	1.66	64.25	STRENGTH-I Concrete Flexure
B0151	1.80	69.75	STRENGTH-I Concrete Flexure
B0287	1.86	71.94	STRENGTH-I Concrete Flexure
B0246	1.88	72.86	STRENGTH-I Concrete Flexure
B0397	1.80	69.87	STRENGTH-I Concrete Flexure
B0470	1.59	61.44	STRENGTH-I Concrete Flexure
B0030	1.51	58.68	STRENGTH-I Concrete Flexure
B0443	1.68	64.90	STRENGTH-I Concrete Flexure
B0197	1.75	67.83	STRENGTH-I Concrete Flexure
A7618	2.00	77.43	STRENGTH-I Concrete Flexure
R0224	1.72	66.71	STRENGTH-I Concrete Flexure
A6306	2.09	80.87	STRENGTH-I Concrete Flexure
A6810	1.61	62.54	STRENGTH-I Concrete Flexure
A3631	1.55	60.09	STRENGTH-I Concrete Flexure
A5034	1.60	61.87	STRENGTH-I Concrete Flexure
A5449	2.62	101.43	STRENGTH-I Concrete Flexure
A6755	2.88	111.67	STRENGTH-I Concrete Flexure
A8022	2.53	98.01	STRENGTH-I Concrete Flexure
A7329	2.55	98.93	STRENGTH-I Concrete Flexure
A8020	2.46	95.43	STRENGTH-I Concrete Flexure
N0385	1.31	50.74	STRENGTH-I Concrete Flexure
N0372	1.32	51.14	STRENGTH-I Concrete Flexure
K0107	1.51	58.51	STRENGTH-I Concrete Flexure
B0302	2.27	87.80	STRENGTH-I Concrete Flexure
A4170	2.44	94.68	STRENGTH-I Concrete Flexure
A3745	1.98	76.59	STRENGTH-I Concrete Flexure
A5309	2.32	89.97	STRENGTH-I Concrete Flexure

Table E.16: Rating Results for AASHTO Type 3-3

Bridge	Rating Factor	Rating Load (tons)	Limit State
A5037	3.02	120.96	STRENGTH-I Concrete Flexure
A6059	3.08	123.32	STRENGTH-I Concrete Flexure
A6355	2.84	113.75	STRENGTH-I Concrete Flexure
A6121	3.97	158.63	STRENGTH-I Concrete Flexure
A6122	3.92	156.75	STRENGTH-I Concrete Flexure
A6458	2.90	115.89	STRENGTH-I Concrete Flexure
A6632	3.11	124.58	STRENGTH-I Concrete Flexure
A4236	2.73	109.22	STRENGTH-I Concrete Flexure
A6733	3.17	126.72	STRENGTH-I Concrete Flexure
A6520	2.25	90.10	STRENGTH-I Concrete Flexure
A6381	2.99	119.45	STRENGTH-I Concrete Flexure
A6775	2.21	88.39	STRENGTH-I Concrete Flexure
A6372	2.67	106.93	STRENGTH-I Concrete Flexure
A4378	3.38	135.02	STRENGTH-I Concrete Flexure
A6519	2.96	118.52	STRENGTH-I Concrete Flexure
A6287	2.64	105.50	STRENGTH-I Concrete Flexure
A1154N	2.75	109.90	STRENGTH-I Concrete Flexure
A1178	3.22	128.63	STRENGTH-I Concrete Flexure
A3434	3.10	123.99	STRENGTH-I Concrete Shear
A7068	3.72	148.69	STRENGTH-I Concrete Flexure
A5230	2.81	112.19	STRENGTH-I Concrete Flexure
A5231	3.28	131.31	STRENGTH-I Concrete Flexure
A3775	2.57	102.65	STRENGTH-I Concrete Flexure
A3867	2.67	106.70	STRENGTH-I Concrete Flexure
A6259	3.35	133.89	STRENGTH-I Concrete Flexure
A6678	2.92	116.63	STRENGTH-I Concrete Flexure
A6144	3.26	130.46	STRENGTH-I Concrete Flexure
A6496	1.91	76.56	STRENGTH-I Concrete Flexure
A6782	2.86	114.39	STRENGTH-I Concrete Flexure
A3357	2.35	94.14	STRENGTH-I Concrete Flexure
A4147	3.14	125.65	STRENGTH-I Concrete Flexure
A5861	2.69	107.67	STRENGTH-I Concrete Flexure
A5862	2.71	108.19	STRENGTH-I Concrete Flexure
K0610	3.44	137.65	STRENGTH-I Concrete Flexure
A4462	3.03	121.04	STRENGTH-I Concrete Flexure

Bridge	Rating Factor	Rating Load (tons)	Limit State
A7144	2.97	118.81	STRENGTH-I Concrete Flexure
A6909	2.94	117.58	STRENGTH-I Concrete Flexure
A7381	3.50	139.99	STRENGTH-I Concrete Flexure
A7206	3.47	138.67	STRENGTH-I Concrete Flexure
A3793	3.58	143.20	STRENGTH-I Concrete Flexure
A6780	2.24	89.44	STRENGTH-I Concrete Flexure
A6784	2.43	97.21	STRENGTH-I Concrete Flexure
A6749	2.63	105.01	STRENGTH-I Concrete Flexure
A7277	3.25	130.08	STRENGTH-I Concrete Flexure
A7506	3.00	120.09	STRENGTH-I Concrete Flexure
A6483	3.28	131.21	STRENGTH-I Concrete Flexure
A1153S	2.76	110.37	STRENGTH-I Concrete Flexure
A8005	2.90	115.84	STRENGTH-I Concrete Flexure
A8010	2.76	110.35	STRENGTH-I Concrete Flexure
A8007	2.43	97.30	STRENGTH-I Concrete Flexure
A2948W	2.24	89.41	STRENGTH-I Concrete Flexure
B0298	3.10	124.15	STRENGTH-I Concrete Flexure
B0072	2.63	105.08	STRENGTH-I Concrete Flexure
A4191	2.59	103.75	STRENGTH-I Concrete Flexure
B0303	4.47	178.85	STRENGTH-I Concrete Flexure
B0128	2.61	104.46	STRENGTH-I Concrete Flexure
B0311	3.54	141.63	STRENGTH-I Concrete Flexure
B0014	2.23	89.17	STRENGTH-I Concrete Flexure
B0166	2.39	95.55	STRENGTH-I Concrete Flexure
B0164	2.74	109.41	STRENGTH-I Concrete Flexure
B0491	3.20	127.87	STRENGTH-I Concrete Flexure
B0255	3.68	147.17	STRENGTH-I Concrete Flexure
B0334	3.98	159.04	STRENGTH-I Concrete Flexure
B0272	3.02	120.80	STRENGTH-I Concrete Flexure
B0226	4.09	163.63	STRENGTH-I Concrete Flexure
B0057	3.06	122.46	STRENGTH-I Concrete Flexure
B0290	2.48	99.18	STRENGTH-I Concrete Flexure
B0523	4.04	161.72	STRENGTH-I Concrete Flexure
B0267	2.64	105.39	STRENGTH-I Concrete Flexure
B0315	4.04	161.76	STRENGTH-I Concrete Flexure
B0431	2.45	97.78	STRENGTH-I Concrete Flexure
A7647	3.39	135.39	STRENGTH-I Concrete Flexure

Bridge	Rating Factor	Rating Load (tons)	Limit State
B0100	2.35	94.16	STRENGTH-I Concrete Flexure
B0484	2.27	90.90	STRENGTH-I Concrete Shear
B0151	2.79	111.57	STRENGTH-I Concrete Shear
B0287	2.29	91.63	STRENGTH-I Concrete Flexure
B0246	2.46	98.19	STRENGTH-I Concrete Flexure
B0397	2.35	94.16	STRENGTH-I Concrete Flexure
B0470	2.30	91.82	STRENGTH-I Concrete Shear
B0030	2.27	90.76	STRENGTH-I Concrete Flexure
B0443	2.62	104.71	STRENGTH-I Concrete Flexure
B0197	2.49	99.76	STRENGTH-I Concrete Flexure
A7618	2.39	95.65	STRENGTH-I Concrete Flexure
R0224	2.39	95.77	STRENGTH-I Concrete Flexure
A6306	3.34	133.54	STRENGTH-I Concrete Flexure
A6810	2.02	80.87	STRENGTH-I Concrete Flexure
A3631	2.59	103.40	STRENGTH-I Concrete Flexure
A5034	2.87	114.92	STRENGTH-I Concrete Flexure
A5449	3.68	147.33	STRENGTH-I Concrete Flexure
A6755	3.57	142.87	STRENGTH-I Concrete Flexure
A8022	3.17	126.58	STRENGTH-I Concrete Flexure
A7329	2.76	110.45	STRENGTH-I Concrete Flexure
A8020	2.91	116.50	STRENGTH-I Concrete Flexure
N0385	2.40	95.79	STRENGTH-I Concrete Flexure
N0372	2.37	94.73	STRENGTH-I Concrete Flexure
K0107	1.94	77.49	STRENGTH-I Concrete Flexure
B0302	3.83	153.17	STRENGTH-I Concrete Flexure
A4170	2.76	110.29	STRENGTH-I Concrete Flexure
A3745	2.35	93.87	STRENGTH-I Concrete Flexure
A5309	3.62	144.85	STRENGTH-I Concrete Flexure

Table E.17: Rating Results for AASHTO Type 3S2

Bridge	Rating Factor	Rating Load (tons)	Limit State
A5037	2.76	99.46	STRENGTH-I Concrete Flexure
A6059	2.92	105.22	STRENGTH-I Concrete Shear
A6355	2.83	101.88	STRENGTH-I Concrete Flexure
A6121	3.59	129.27	STRENGTH-I Concrete Flexure
A6122	3.59	129.21	STRENGTH-I Concrete Flexure
A6458	2.47	88.75	STRENGTH-I Concrete Flexure
A6632	3.25	116.91	STRENGTH-I Concrete Flexure
A4236	2.33	83.92	STRENGTH-I Concrete Flexure
A6733	3.16	113.86	STRENGTH-I Concrete Flexure
A6520	2.32	83.33	STRENGTH-I Concrete Flexure
A6381	2.97	107.07	STRENGTH-I Concrete Flexure
A6775	2.26	81.24	STRENGTH-I Concrete Flexure
A6372	2.74	98.47	STRENGTH-I Concrete Flexure
A4378	2.97	106.75	STRENGTH-I Concrete Flexure
A6519	2.88	103.6	STRENGTH-I Concrete Flexure
A6287	2.61	93.88	STRENGTH-I Concrete Flexure
A1154N	2.82	101.45	STRENGTH-I Concrete Flexure
A1178	3.31	119.28	STRENGTH-I Concrete Flexure
A3434	3.06	110.29	STRENGTH-I Concrete Shear
A7068	3.39	121.85	STRENGTH-I Concrete Flexure
A5230	2.83	101.71	STRENGTH-I Concrete Flexure
A5231	3.14	113.02	STRENGTH-I Concrete Flexure
A3775	2.76	99.33	STRENGTH-I Concrete Flexure
A3867	2.44	87.8	STRENGTH-I Concrete Flexure
A6259	3.36	120.81	STRENGTH-I Concrete Flexure
A6678	2.80	100.94	STRENGTH-I Concrete Flexure
A6144	3.03	109.19	STRENGTH-I Concrete Flexure
A6496	1.87	67.36	STRENGTH-I Concrete Flexure
A6782	2.91	104.88	STRENGTH-I Concrete Flexure
A3357	2.37	85.14	STRENGTH-I Concrete Flexure
A4147	2.79	100.42	STRENGTH-I Concrete Flexure
A5861	2.70	97.16	STRENGTH-I Concrete Flexure
A5862	2.71	97.64	STRENGTH-I Concrete Flexure
K0610	3.00	107.89	STRENGTH-I Concrete Flexure
A4462	2.83	101.88	STRENGTH-I Concrete Flexure

Bridge	Rating Factor	Rating Load (tons)	Limit State
A7144	3.03	109.22	STRENGTH-I Concrete Flexure
A6909	3.10	111.58	STRENGTH-I Concrete Flexure
A7381	3.58	128.85	STRENGTH-I Concrete Flexure
A7206	3.08	110.75	STRENGTH-I Concrete Flexure
A3793	3.41	122.82	STRENGTH-I Concrete Flexure
A6780	2.36	85.04	STRENGTH-I Concrete Flexure
A6784	2.40	86.49	STRENGTH-I Concrete Flexure
A6749	2.79	100.6	STRENGTH-I Concrete Flexure
A7277	3.09	111.18	STRENGTH-I Concrete Flexure
A7506	3.04	109.26	STRENGTH-I Concrete Flexure
A6483	3.17	114.24	STRENGTH-I Concrete Flexure
A1153S	2.90	104.21	STRENGTH-I Concrete Flexure
A8005	3.04	109.44	STRENGTH-I Concrete Flexure
A8010	2.75	99.14	STRENGTH-I Concrete Flexure
A8007	2.55	91.94	STRENGTH-I Concrete Flexure
A2948W	2.24	80.46	STRENGTH-I Concrete Flexure
B0298	3.09	111.23	STRENGTH-I Concrete Flexure
B0072	2.46	88.58	STRENGTH-I Concrete Flexure
A4191	2.68	96.63	STRENGTH-I Concrete Flexure
B0303	3.93	141.35	STRENGTH-I Concrete Flexure
B0128	2.54	91.5	STRENGTH-I Concrete Flexure
B0311	3.45	124.06	STRENGTH-I Concrete Flexure
B0014	2.29	82.56	STRENGTH-I Concrete Flexure
B0166	2.25	81.04	STRENGTH-I Concrete Flexure
B0164	2.38	85.52	STRENGTH-I Concrete Flexure
B0491	3.15	113.4	STRENGTH-I Concrete Flexure
B0255	3.45	124.19	STRENGTH-I Concrete Flexure
B0334	3.72	134.07	STRENGTH-I Concrete Flexure
B0272	3.01	108.24	STRENGTH-I Concrete Flexure
B0226	3.76	135.51	STRENGTH-I Concrete Flexure
B0057	3.16	113.88	STRENGTH-I Concrete Flexure
B0290	2.34	84.12	STRENGTH-I Concrete Flexure
B0523	3.63	130.79	STRENGTH-I Concrete Flexure
B0267	2.37	85.37	STRENGTH-I Concrete Flexure
B0315	3.63	130.83	STRENGTH-I Concrete Flexure
B0431	2.56	92.32	STRENGTH-I Concrete Flexure
A7647	3.18	114.47	STRENGTH-I Concrete Flexure

Bridge	Rating Factor	Rating Load (tons)	Limit State
B0100	2.34	84.37	STRENGTH-I Concrete Flexure
B0484	2.25	80.88	STRENGTH-I Concrete Shear
B0151	2.64	94.9	STRENGTH-I Concrete Shear
B0287	2.33	83.96	STRENGTH-I Concrete Flexure
B0246	2.44	87.97	STRENGTH-I Concrete Flexure
B0397	2.34	84.37	STRENGTH-I Concrete Flexure
B0470	2.24	80.65	STRENGTH-I Concrete Shear
B0030	2.18	78.43	STRENGTH-I Concrete Flexure
B0443	2.47	88.81	STRENGTH-I Concrete Flexure
B0197	2.40	86.21	STRENGTH-I Concrete Flexure
A7618	2.46	88.68	STRENGTH-I Concrete Flexure
R0224	2.05	73.93	STRENGTH-I Concrete Flexure
A6306	3.31	119.07	STRENGTH-I Concrete Flexure
A6810	2.03	73.03	STRENGTH-I Concrete Flexure
A3631	2.26	81.31	STRENGTH-I Concrete Flexure
A5034	2.39	86.12	STRENGTH-I Concrete Flexure
A5449	3.48	125.08	STRENGTH-I Concrete Flexure
A6755	3.58	128.98	STRENGTH-I Concrete Flexure
A8022	3.15	113.36	STRENGTH-I Concrete Flexure
A7329	2.92	105.12	STRENGTH-I Concrete Flexure
A8020	3.01	108.5	STRENGTH-I Concrete Flexure
N0385	1.98	71.43	STRENGTH-I Concrete Flexure
N0372	2.07	74.53	STRENGTH-I Concrete Flexure
K0107	1.59	57.29	STRENGTH-I Concrete Flexure
B0302	3.56	128.16	STRENGTH-I Concrete Flexure
A4170	2.87	103.24	STRENGTH-I Concrete Flexure
A3745	2.38	85.75	STRENGTH-I Concrete Flexure
A5309	3.38	121.58	STRENGTH-I Concrete Flexure

Table E.18: Rating Results for AASHTO Type 3

Bridge	Rating Factor	Rating Load (tons)	Limit State
A5037	3.01	75.22	STRENGTH-I Concrete Flexure
A6059	2.85	71.28	STRENGTH-I Concrete Flexure
A6355	3.42	85.42	STRENGTH-I Concrete Flexure
A6121	3.70	92.38	STRENGTH-I Concrete Flexure
A6122	3.69	92.34	STRENGTH-I Concrete Flexure
A6458	2.73	68.15	STRENGTH-I Concrete Flexure
A6632	3.44	85.95	STRENGTH-I Concrete Flexure
A4236	2.15	53.75	STRENGTH-I Concrete Flexure
A6733	3.83	95.73	STRENGTH-I Concrete Flexure
A6520	2.68	66.97	STRENGTH-I Concrete Flexure
A6381	3.59	89.65	STRENGTH-I Concrete Flexure
A6775	2.89	72.17	STRENGTH-I Concrete Flexure
A6372	3.49	87.14	STRENGTH-I Concrete Flexure
A4378	3.08	76.97	STRENGTH-I Concrete Flexure
A6519	3.11	77.85	STRENGTH-I Concrete Flexure
A6287	2.89	72.20	STRENGTH-I Concrete Flexure
A1154N	2.55	63.80	STRENGTH-I Concrete Flexure
A1178	3.91	97.81	STRENGTH-I Concrete Flexure
A3434	3.03	75.80	STRENGTH-I Concrete Flexure
A7068	3.50	87.48	STRENGTH-I Concrete Flexure
A5230	2.61	65.14	STRENGTH-I Concrete Flexure
A5231	3.60	90.01	STRENGTH-I Concrete Flexure
A3775	2.82	70.49	STRENGTH-I Concrete Flexure
A3867	2.66	66.46	STRENGTH-I Concrete Flexure
A6259	4.09	102.31	STRENGTH-I Concrete Flexure
A6678	3.11	77.82	STRENGTH-I Concrete Flexure
A6144	3.24	81.03	STRENGTH-I Concrete Flexure
A6496	2.21	55.15	STRENGTH-I Concrete Flexure
A6782	3.83	95.68	STRENGTH-I Concrete Flexure
A3357	3.04	75.87	STRENGTH-I Concrete Flexure
A4147	2.90	72.38	STRENGTH-I Concrete Flexure
A5861	3.12	77.90	STRENGTH-I Concrete Flexure
A5862	3.11	77.83	STRENGTH-I Concrete Flexure
K0610	2.81	70.29	STRENGTH-I Concrete Flexure
A4462	2.67	66.83	STRENGTH-I Concrete Flexure

Bridge	Rating Factor	Rating Load (tons)	Limit State
A7144	2.99	74.82	STRENGTH-I Concrete Flexure
A6909	3.39	84.84	STRENGTH-I Concrete Flexure
A7381	4.36	108.94	STRENGTH-I Concrete Flexure
A7206	3.26	81.59	STRENGTH-I Concrete Flexure
A3793	3.64	90.94	STRENGTH-I Concrete Flexure
A6780	3.18	79.52	STRENGTH-I Concrete Flexure
A6784	2.78	69.55	STRENGTH-I Concrete Flexure
A6749	3.07	76.80	STRENGTH-I Concrete Flexure
A7277	2.93	73.29	STRENGTH-I Concrete Flexure
A7506	3.79	94.82	STRENGTH-I Concrete Flexure
A6483	3.55	88.85	STRENGTH-I Concrete Flexure
A1153S	2.79	69.73	STRENGTH-I Concrete Flexure
A8005	3.90	97.53	STRENGTH-I Concrete Flexure
A8010	3.24	80.97	STRENGTH-I Concrete Flexure
A8007	3.28	81.96	STRENGTH-I Concrete Flexure
A2948W	3.02	75.55	STRENGTH-I Concrete Flexure
B0298	3.62	90.45	STRENGTH-I Concrete Flexure
B0072	2.45	61.27	STRENGTH-I Concrete Flexure
A4191	3.54	88.40	STRENGTH-I Concrete Flexure
B0303	3.69	92.35	STRENGTH-I Concrete Flexure
B0128	2.46	61.46	STRENGTH-I Concrete Flexure
B0311	3.70	92.41	STRENGTH-I Concrete Flexure
B0014	2.84	70.95	STRENGTH-I Concrete Flexure
B0166	2.43	60.69	STRENGTH-I Concrete Flexure
B0164	2.36	59.04	STRENGTH-I Concrete Flexure
B0491	3.63	90.72	STRENGTH-I Concrete Flexure
B0255	3.59	89.64	STRENGTH-I Concrete Flexure
B0334	3.73	93.18	STRENGTH-I Concrete Flexure
B0272	2.99	74.83	STRENGTH-I Concrete Flexure
B0226	3.42	85.43	STRENGTH-I Concrete Flexure
B0057	3.95	98.61	STRENGTH-I Concrete Flexure
B0290	2.52	63.00	STRENGTH-I Concrete Flexure
B0523	3.35	83.72	STRENGTH-I Concrete Flexure
B0267	2.23	55.78	STRENGTH-I Concrete Flexure
B0315	3.35	83.74	STRENGTH-I Concrete Flexure
B0431	3.42	85.59	STRENGTH-I Concrete Flexure
A7647	3.41	85.33	STRENGTH-I Concrete Flexure

Bridge	Rating Factor	Rating Load (tons)	Limit State
B0100	2.74	68.60	STRENGTH-I Concrete Flexure
B0484	2.51	62.81	STRENGTH-I Concrete Flexure
B0151	2.71	67.68	STRENGTH-I Concrete Flexure
B0287	2.83	70.85	STRENGTH-I Concrete Flexure
B0246	2.86	71.53	STRENGTH-I Concrete Flexure
B0397	2.74	68.60	STRENGTH-I Concrete Flexure
B0470	2.36	59.04	STRENGTH-I Concrete Flexure
B0030	2.23	55.63	STRENGTH-I Concrete Flexure
B0443	2.49	62.36	STRENGTH-I Concrete Flexure
B0197	2.65	66.31	STRENGTH-I Concrete Flexure
A7618	3.06	76.38	STRENGTH-I Concrete Flexure
R0224	2.45	61.19	STRENGTH-I Concrete Flexure
A6306	3.01	75.21	STRENGTH-I Concrete Flexure
A6810	2.42	60.60	STRENGTH-I Concrete Flexure
A3631	2.29	57.12	STRENGTH-I Concrete Flexure
A5034	2.28	56.94	STRENGTH-I Concrete Flexure
A5449	3.92	98.09	STRENGTH-I Concrete Flexure
A6755	4.36	109.11	STRENGTH-I Concrete Flexure
A8022	3.77	94.30	STRENGTH-I Concrete Flexure
A7329	3.94	98.41	STRENGTH-I Concrete Flexure
A8020	3.77	94.21	STRENGTH-I Concrete Flexure
N0385	1.94	48.51	STRENGTH-I Concrete Flexure
N0372	1.94	48.55	STRENGTH-I Concrete Flexure
K0107	2.23	55.74	STRENGTH-I Concrete Flexure
B0302	3.40	84.89	STRENGTH-I Concrete Flexure
A4170	3.75	93.69	STRENGTH-I Concrete Flexure
A3745	3.02	75.57	STRENGTH-I Concrete Flexure
A5309	3.42	85.51	STRENGTH-I Concrete Flexure

Table E. 19: Rating Result for H20 Legal Load - Culvert

Bridge	LFR Rating Factor	LFR Rating Load (Tons)	LFR Posting Load	LRFR Rating Factor	LRFR Rating Load (Tons)	LRFR Posting Load
P0738	1.11	22.21	19.1	0.92	18.49	18.5
X0897	0.99	19.87	17.1	0.79	15.78	15.8
N0157	0.87	17.44	15.0	0.73	14.49	14.5
A1881	1.77	35.30		1.32	26.43	
R0080	1.60	31.99		0.88	17.66	17.7
N0065	0.93	18.67	16.1	0.69	13.78	13.8
A1436	1.95	39.07		1.56	31.13	
G0764	2.54	50.84		0.86	17.20	17.2
X0103	0.99	19.80	17.0	0.54	10.76	10.8
J0164	2.23	44.59		1.67	33.44	
A1492	2.93	58.55		1.78	35.68	
P0679	0.90	17.99	15.5	0.73	14.62	14.6
S0626	0.97	19.42	16.7	0.82	16.43	16.4
A3355	1.99	39.80		1.53	30.57	
T0676	0.96	19.20	16.5	0.85	16.95	17.0
A2245	1.88	37.54		1.42	28.48	
P0879	0.86	17.17	14.8	0.72	14.45	14.5
A4600	2.93	58.69		2.31	46.21	
A2160	2.44	48.74		1.47	29.32	
P0800	0.78	15.57	13.4	0.70	13.95	14.0
S0936	1.01	20.20	17.4	0.83	16.65	16.7
P0059	1.25	24.96	21.5	1.02	20.29	
G0766	1.53	30.69		1.21	24.15	
R0449	1.72	34.39		1.41	28.14	
A6403	3.30	65.93		2.68	53.50	
A2637	2.25	44.93		1.19	23.70	
A2473	1.91	38.12		1.39	27.75	
A4212	2.25	45.02		1.32	26.34	
A4615	1.72	34.43		1.47	29.37	
A2765	1.92	38.36		1.53	30.57	
A2469	2.10	42.02		1.71	34.10	
J0632	1.68	33.59		1.32	26.38	
P0407	1.07	21.47	18.5	0.78	15.49	15.5

Bridge	LFR Rating Factor	LFR Rating Load (Tons)	LFR Posting Load	LRFR Rating Factor	LRFR Rating Load (Tons)	LRFR Posting Load
N0147	0.98	19.64	16.9	0.78	15.56	15.6
T0466	1.57	31.42		1.22	24.36	

Table E. 20: Rating Result for MO3S2 - Culvert

Bridge	LFR Rating Factor	LFR Rating Load (Tons)	LFR Posting Load	LRFR Rating Factor	LRFR Rating Load (Tons)	LRFR Posting Load
P0738	1.10	40.21	34.6	0.91	33.47	33.5
X0897	0.99	36.16	31.1	0.79	28.90	28.9
N0157	0.87	31.95	27.5	0.73	26.55	26.6
A1881	1.77	64.67		1.32	48.41	
R0080	1.60	58.61		0.88	32.35	32.4
N0065	0.93	34.20	29.4	0.69	25.24	25.2
A1436	1.95	71.57		1.56	57.03	
G0764	2.54	93.15		0.86	31.51	31.5
X0103	0.99	36.27	31.2	0.54	19.71	19.7
J0164	2.23	81.69		1.67	61.27	
A1492	2.86	104.90		1.75	64.28	
P0679	0.87	32.02	27.5	0.71	26.03	26.0
S0626	0.97	35.57	30.6	0.82	30.10	30.1
A3355	1.96	71.87		1.51	55.20	
T0676	0.96	35.18	30.3	0.85	31.05	31.1
A2245	1.88	68.77		1.42	52.17	
P0879	0.83	30.55	26.3	0.70	25.73	25.7
A4600	2.85	104.23		2.24	82.07	
A2160	2.44	89.30		1.47	53.72	
P0800	0.76	27.73	23.8	0.68	24.85	24.9
S0936	1.01	37.01	31.8	0.83	30.50	30.5
P0059	1.25	45.73		1.02	37.17	
G0766	1.51	55.45		1.19	43.63	
R0449	1.72	63.00		1.41	51.55	
A6403	3.30	120.79		2.68	98.02	
A2637	2.25	82.31		1.19	43.41	
A2473	1.91	69.83		1.39	50.84	
A4212	2.25	82.48		1.32	48.26	
A4615	1.72	63.08		1.47	53.80	
A2765	1.92	70.28		1.53	56.01	
A2469	2.06	75.57		1.69	62.03	
J0632	1.65	60.56		1.30	47.56	
P0407	1.07	39.34	33.8	0.78	28.38	28.4

Bridge	LFR Rating Factor	LFR Rating Load (Tons)	LFR Posting Load	LRFR Rating Factor	LRFR Rating Load (Tons)	LRFR Posting Load
N0147	0.98	35.98	30.9	0.78	28.50	28.5
T0466	1.57	57.57		1.22	44.62	

Table E. 21: Rating Result for SU5 - Culvert

Bridge	LFR Rating Factor	LFR Rating Load (Tons)	LFR Posting Load	LRFR Rating Factor	LRFR Rating Load (Tons)	LRFR Posting Load
P0738	0.98	30.50	26.2	0.82	25.39	25.4
X0897	0.89	27.51	23.7	0.70	21.84	21.8
N0157	0.74	23.07	19.8	0.62	19.17	19.2
A1881	1.52	47.12		1.14	35.27	
R0080	1.43	44.20		0.79	24.40	24.4
N0065	0.83	25.82	22.2	0.62	19.05	19.1
A1436	1.80	55.72		1.43	44.40	
G0764	2.24	69.31		0.76	23.65	23.7
X0103	0.94	29.00	24.9	0.51	15.77	15.8
J0164	2.15	66.70		1.62	50.05	
A1492	2.69	83.49		1.58	49.06	
P0679	0.81	25.11	21.6	0.66	20.41	20.4
S0626	0.87	26.88	23.1	0.74	22.95	23.0
A3355	1.84	56.87		1.41	43.68	
T0676	0.88	27.34	23.5	0.79	24.34	24.3
A2245	1.71	52.88		1.34	41.46	
P0879	0.77	23.96	20.6	0.65	20.18	20.2
A4600	2.81	87.19		2.20	68.30	
A2160	2.21	68.36		1.33	41.12	
P0800	0.68	21.05	18.1	0.61	18.85	18.9
S0936	0.90	27.96	24.0	0.74	23.04	23.0
P0059	1.05	32.65		0.87	26.81	26.8
G0766	1.42	44.03		1.12	34.65	
R0449	1.48	46.02		1.21	37.65	
A6403	2.92	90.44		2.37	73.39	
A2637	2.03	62.99		1.07	33.23	
A2473	1.72	53.35		1.30	40.39	
A4212	1.98	61.51		1.16	35.99	
A4615	1.56	48.19		1.33	41.11	
A2765	1.71	52.90		1.36	42.17	
A2469	1.70	52.81		1.40	43.36	
J0632	1.54	47.85		1.21	37.58	
P0407	0.97	30.03	25.8	0.71	22.14	22.1

Bridge	LFR Rating Factor	LFR Rating Load (Tons)	LFR Posting Load	LRFR Rating Factor	LRFR Rating Load (Tons)	LRFR Posting Load
N0147	0.89	27.58	23.7	0.71	21.85	21.9
T0466	1.24	38.38		0.96	29.75	29.8

Table E. 22: Rating Result for CZSU - Culvert

Bridge	LFR Rating Factor	LFR Rating Load (Tons)	LFR Posting Load	LRFR Rating Factor	LRFR Rating Load (Tons)	LRFR Posting Load
A1492	2.05	83.43		1.20	49.02	
A3355	1.39	56.83		1.07	43.65	

Table E. 23: Rating Result for CZRT - Culvert

Bridge	LFR Rating Factor	LFR Rating Load (Tons)	LFR Posting Load	LRFR Rating Factor	LRFR Rating Load (Tons)	LRFR Posting Load
A1492	2.12	84.35		1.30	51.90	
A3355	1.44	57.31	49.3	1.11	44.02	