BRIDGE / MEMBER DATA

Structure I. D. HAM500

Material of Construction	SS
Year of Construction	1959
Roadway Width	32.000
Center to Center Truss	38.833
Number of Spans	1
Live Load Distribution Factor	2.5400

Comments:

Truss I. D. 1 Truss Type: THROUGH

Span Length: Span 1
191.333

Number of Panels: 8 Symmetry:

Panel No.	Panel Code	Panel Length	Sub-Divided Panel Length	Vertical Height	Sub-Divided Vertical
1	7	23.917	0.000	28.000	0.000
2	2	23.917	0.000	33.250	0.000
3	2	23.917	0.000	35.000	0.000
4	4	23.917	0.000	35.000	0.000
5	3	23.917	0.000	35.000	0.000
6	1	23.917	0.000	33.250	0.000
7	1	23.917	0.000	28.000	0.000
8	5	23.917	0.000	0.000	0.000

Superimposed Dead Load:

Uniform Dead Load (kips/ft)

Loaded Chord	Unloaded Chord
0.355	0.000

Superimposed Dead Load:

Loaded Chord Dist.	Loaded Chord Load	Unloaded Chord Dist.	Unloaded Chord Load
0.000	28.160	0.000	0.000
23.917	62.790	0.000	0.000
47.833	52.440	0.000	0.000
71.750	54.970	0.000	0.000
95.667	53.790	0.000	0.000

119.583	54.970	0.000	0.000
143.500	52.440	0.000	0.000
167.417	62.790	0.000	0.000

Truss Members Selected:

L 0L 1
L 0U 1
U 1L 1
U 1U 2
L 1L 2
U 1L 2
U 2L 2
U 2U 3
L 2L 3
U 2L 3
U 3L 3
L 3L 4
U 3U 4
U 3L 4
L 3U 4
U 4L 4
L 4L 5
U 4U 5
L 4U 5
U 4L 5
U 5L 5
L 5L 6
U 5U 6
L 5U 6
U 6L 6
L 6L 7
U 6U 7
L 6U 7
U 7L 7
L 7L 8
U 7L 8

NOTE: All distances are shown in decimal feet, moments are shown in foot-kips, and shears are shown in kips. Section and section properties are shown as: in., in.**2, in.**3, and in.**4. Axial loads are shown in kips.

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. L 0L 1

RATIO/Inv.	Allowable stress (fs) (psi) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	0.	0.
Fy (compression)	14057.	17530.	0.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
23.917	23.917	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
15.00	22.50	421.86	743.54	7.50	4.33	5.75

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
21.38	507.10	595.25	8.68

Truss influence line - loaded chord:

X ordinates:	0.000	23.917	191.333	0.000	0.000	0.000	0.000	0		
.000	0.000	0.000								
Y ordinates:	0.000	0.747	0.000	0.000	0.000	0.000	0.000	0		
.000	0.000	0.000								

Truss influence line - unloaded chord:

X ordinates:	0.000	23.917	191.333	0.000	0.000	0.000	0.000	0		
.000	0.000	0.000								
Y ordinates:	0.000	0.747	0.000	0.000	0.000	0.000	0.000	0		
.000	0.000	0.000								

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

	INV. HS20	OPER HS20	POST	SPEC
		2F1		
		3F1		
		4F1		
		5C1		

Truss I. D. 1
Truss Member I. D. L 0L 1

Axial Dead Load	
Tension	Compression
210.6	0.0

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	325.6	263.0	199.2	389.4
OPER	542.6	438.4	332.0	649.1

Live Load Effect

Impact Factors: ten - .158 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	74.73	R	64.53	51.92	87.09	75.20	23.92
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	HS20	74.73	R	64.53	51.92	87.09	75.20	23.92
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	2F1	32.32	R	27.91	33.92	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	49.01	R	42.32	37.92	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	56.84	R	49.08	41.92	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	75.21	R	64.95	74.92	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.29	HS 45.74	82.3
HS20	3.81	HS 76.23	137.2
2F1	10.27	0.00	154.1
3F1	6.77	0.00	155.8
4F1	5.84	0.00	157.7
5C1	4.41	0.00	176.5

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. L 0U 1

RATIO/Inv.	Allowable stress (fs) (psi) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	0.	0.
Fy (compression)	14277.	17804.	0.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
36.823	36.823	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
25.78	41.21	2775.48	2144.43	21.40	8.21	7.21

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
41.21	2775.48	2144.43	21.40

Truss influence line - loaded chord:

X ordinates:	0.000	23.917	191.333	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	-1.151	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	23.917	191.333	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	-1.151	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

	INV. HS20	OPER HS20	POST	SPEC
		2F1		
		3F1		
		4F1		
		5C1		

Truss I. D. 1
Truss Member I. D. L 0U 1

Axial Dead Load	
Tension	Compression
0.0	324.3

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	627.7	489.3	822.3	294.7
OPER	1046.1	815.6	1370.4	491.2

Live Load Effect

Impact Factors: ten - .000 comp - .158

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	0.00	R	0.00	0.00	0.00	0.00	0.00
		-115.06	R	-99.36	51.92	-147.63	-127.48	23.92
OPER	HS20	0.00	R	0.00	0.00	0.00	0.00	0.00
		-115.06	R	-99.36	51.92	-147.63	-127.48	23.92
OPER	2F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-49.76	R	-42.97	33.92	0.00	0.00	0.00
OPER	3F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-75.47	R	-65.17	37.92	0.00	0.00	0.00
OPER	4F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-87.51	R	-75.57	41.92	0.00	0.00	0.00
OPER	5C1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-115.80	R	-100.00	74.92	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.00	HS 39.93	71.9
HS20	3.33	HS 66.55	119.8
2F1	9.87	0.00	148.1
3F1	6.51	0.00	149.7
4F1	5.61	0.00	151.6
5C1	4.24	0.00	169.7

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. U 1L 1

RATIO/Inv.	Allowable stress (fs) (psi) Inventory 0.00	Operating 0.00	Posting 0.00	Special
Fy (tension)	18150.	24750.	0.	0.
Fy (compression)	5702.	7111.	0.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
28.000	28.000	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Iy	Dy	Rx	Ry
11.94	10.25	106.54	37.41	-1.51	3.22	1.91

Net Section Properties:

Area	Moment of Inertia Ix	Iy	Dy
9.73	199.74	24.71	-0.96

Truss influence line - loaded chord:

X ordinates:	0.000	0.000	23.917	47.833	191.333	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	0.000	1.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	191.333	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

	INV. HS20	OPER HS20	POST	SPEC
		2F1		
		3F1		
		4F1		
		5C1		

Truss I. D. 1
Truss Member I. D. U 1L 1

Axial Dead Load	
Tension	Compression
71.3	0.0

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	148.1	48.6	105.4	91.4
OPER	246.9	81.0	175.6	152.3

Live Load Effect

Impact Factors: ten - .289 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	79.55	R	61.70	37.92	67.64	52.46	23.92
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	HS20	79.55	R	61.70	37.92	67.64	52.46	23.92
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	2F1	42.28	R	32.79	33.92	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	62.45	R	48.44	33.92	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	69.25	L	53.71	9.92	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	60.81	R	47.16	35.92	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.32	HS 26.49	47.7
HS20	2.21	HS 44.14	79.5
2F1	4.15	0.00	62.3
3F1	2.81	0.00	64.7
4F1	2.54	0.00	68.5
5C1	2.89	0.00	115.5

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. U 1U 2

RATIO/Inv.	Allowable stress (fs) (psi) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	0.	0.
Fy (compression)	15011.	18720.	0.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
24.486	24.486	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
25.75	34.10	2388.22	1822.35	21.05	8.37	7.31

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
34.10	2388.22	1822.35	21.05

Truss influence line - loaded chord:

X ordinates:	0.000	47.833	191.333	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	-1.105	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	47.833	191.333	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	-1.105	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

	INV. HS20	OPER HS20	POST	SPEC
		2F1		
		3F1		
		4F1		
		5C1		

Truss I. D. 1
Truss Member I. D. U 1U 2

Axial Dead Load	
Tension	Compression
0.0	306.6

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	519.4	425.7	703.3	241.8
OPER	865.6	709.5	1172.2	403.0

Live Load Effect

Impact Factors: ten - .000 comp - .158

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	w/o imp.	Loc. of Conc. Load
INV.	HS20	0.00	R	0.00	0.00	0.00	0.00	0.00
		-109.37	R	-94.44	75.83	-128.71	-111.15	47.83
OPER	HS20	0.00	R	0.00	0.00	0.00	0.00	0.00
		-109.37	R	-94.44	75.83	-128.71	-111.15	47.83
OPER	2F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-47.61	R	-41.11	57.83	0.00	0.00	0.00
OPER	3F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-72.06	R	-62.23	61.83	0.00	0.00	0.00
OPER	4F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-83.38	R	-72.00	65.83	0.00	0.00	0.00
OPER	5C1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-110.07	L	-95.04	35.83	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.88	HS 37.57	67.6
HS20	3.13	HS 62.62	112.7
2F1	8.47	0.00	127.0
3F1	5.59	0.00	128.6
4F1	4.83	0.00	130.5
5C1	3.66	0.00	146.4

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. L 1L 2

RATIO/Inv.	Allowable stress (fs) (psi) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	0.	0.
Fy (compression)	14057.	17530.	0.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
23.917	23.917	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Iy	Dy	Rx	Ry
15.00	22.50	421.86	743.54	7.50	4.33	5.75

Net Section Properties:

Area	Moment of Inertia Ix	Iy	Dy
21.38	507.10	595.25	8.68

Truss influence line - loaded chord:

X ordinates:	0.000	23.917	191.333	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	0.747	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	23.917	191.333	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	0.747	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

	INV. HS20	OPER HS20	POST	SPEC
		2F1		
		3F1		
		4F1		
		5C1		

Truss I. D. 1
Truss Member I. D. L 1L 2

Axial Dead Load	
Tension	Compression
210.6	0.0

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	325.6	263.0	199.2	389.4
OPER	542.6	438.4	332.0	649.1

Live Load Effect

Impact Factors: ten - .158 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	74.73	R	64.53	51.92	87.09	75.20	23.92
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	HS20	74.73	R	64.53	51.92	87.09	75.20	23.92
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	2F1	32.32	R	27.91	33.92	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	49.01	R	42.32	37.92	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	56.84	R	49.08	41.92	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	75.21	R	64.95	74.92	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.29	HS 45.74	82.3
HS20	3.81	HS 76.23	137.2
2F1	10.27	0.00	154.1
3F1	6.77	0.00	155.8
4F1	5.84	0.00	157.7
5C1	4.41	0.00	176.5

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. U 1L 2

RATIO/Inv.	Allowable stress (fs) (psi) Inventory 0.00	Operating 0.00	Posting 0.00	Special
Fy (tension)	18150.	24750.	0.	0.
Fy (compression)	5543.	6913.	0.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
36.824	36.824	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Iy	Dy	Rx	Ry
12.19	16.25	359.50	99.75	-0.56	4.70	2.48

Net Section Properties:

Area	Moment of Inertia Ix	Iy	Dy
16.13	544.70	68.60	0.31

Truss influence line - loaded chord:

X ordinates:	0.000	23.917	47.833	191.333	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	-0.320	0.675	0.000	0.000	0.000	0.000	0.000	0.000

Truss influence line - unloaded chord:

X ordinates:	0.000	23.917	47.833	191.333	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	-0.320	0.675	0.000	0.000	0.000	0.000	0.000	0.000

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

	INV. HS20	OPER HS20	POST	SPEC
		2F1		
		3F1		
		4F1		
		5C1		

Truss I. D. 1
Truss Member I. D. U 1L 2

Axial Dead Load	
Tension	Compression
136.7	0.0

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	245.6	74.9	163.6	156.9
OPER	409.4	124.9	272.7	261.6

Live Load Effect

Impact Factors: ten - .176 comp - .300

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	67.83	R	57.70	75.83	77.70	66.09	47.83
		-23.93	L	-18.40	-4.08	-19.09	-14.68	23.92
OPER	HS20	67.83	R	57.70	75.83	77.70	66.09	47.83
		-23.93	L	-18.40	-4.08	-19.09	-14.68	23.92
OPER	2F1	29.53	R	25.12	57.83	0.00	0.00	0.00
		-13.65	L	-10.50	13.92	0.00	0.00	0.00
OPER	3F1	44.69	R	38.02	61.83	0.00	0.00	0.00
		-19.10	L	-14.69	9.92	0.00	0.00	0.00
OPER	4F1	51.71	R	43.99	65.83	0.00	0.00	0.00
		-20.06	L	-15.43	5.92	0.00	0.00	0.00
OPER	5C1	67.00	R	56.99	98.83	0.00	0.00	0.00
		-16.47	L	-12.67	-27.08	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.11	HS 42.12	75.8
HS20	3.51	HS 70.19	126.3
2F1	9.24	0.00	138.5
3F1	6.10	0.00	140.3
4F1	5.27	0.00	142.4
5C1	4.07	0.00	162.8

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. U 2L 2

RATIO/Inv.	Allowable stress (fs) (psi) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	0.	0.
Fy (compression)	9798.	12219.	0.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
33.250	33.250	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Iy	Dy	Rx	Ry
12.12	17.79	351.74	168.66	-0.83	4.45	3.08

Net Section Properties:

Area	Moment of Inertia Ix	Iy	Dy
17.79	550.73	130.14	-0.01

Truss influence line - loaded chord:

X ordinates:	0.000	47.833	71.750	191.333	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	0.487	-0.428	0.000	0.000	0.000	0.000	0.000	0.000

Truss influence line - unloaded chord:

X ordinates:	0.000	23.917	47.833	191.333	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	0.243	-0.513	0.000	0.000	0.000	0.000	0.000	0.000

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

	INV. HS20	OPER HS20	POST	SPEC
		2F1		
		3F1		
		4F1		
		5C1		

Truss I. D. 1
Truss Member I. D. U 2L 2

Axial Dead Load

Tension	Compression
0.0	43.0

Veh.	Axial Load Capacity Tension	Axial Load Capacity Compression	Available Capacity for LL+I Tension	Available Capacity for LL+I Compression
INV.	270.9	145.0	296.7	119.1
OPER	451.5	241.6	494.6	198.6

Live Load Effect

Impact Factors: ten - .269 comp - .195

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	45.49	L	35.83	19.83	35.62	28.06	47.83
		-43.10	R	-36.05	99.75	-44.05	-36.85	71.75
OPER	HS20	45.49	L	35.83	19.83	35.62	28.06	47.83
		-43.10	R	-36.05	99.75	-44.05	-36.85	71.75
OPER	2F1	21.91	L	17.26	37.83	0.00	0.00	0.00
		-18.93	R	-15.84	81.75	0.00	0.00	0.00
OPER	3F1	32.23	L	25.39	33.83	0.00	0.00	0.00
		-28.58	R	-23.91	85.75	0.00	0.00	0.00
OPER	4F1	36.08	L	28.42	29.83	0.00	0.00	0.00
		-32.98	R	-27.58	89.75	0.00	0.00	0.00
OPER	5C1	32.16	R	25.33	59.83	0.00	0.00	0.00
		-41.42	R	-34.65	122.75	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.70	HS 54.10	97.4
HS20	4.51	HS 90.16	162.3
2F1	10.49	0.00	157.3
3F1	6.95	0.00	159.8
4F1	6.02	0.00	162.6
5C1	4.79	0.00	191.8

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. U 2U 3

RATIO/Inv.	Allowable stress (fs) (psi) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	0.	0.
Fy (compression)	15016.	18726.	0.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
23.981	23.981	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
25.84	38.03	2805.75	1967.05	20.02	8.59	7.19

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
38.03	2805.75	1967.05	20.02

Truss influence line - loaded chord:

X ordinates:	0.000	71.750	191.333	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	-1.285	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	71.750	191.333	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	-1.285	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

	INV. HS20	OPER HS20	POST	SPEC
		2F1		
		3F1		
		4F1		
		5C1		

Truss I. D. 1
Truss Member I. D. U 2U 3

Axial Dead Load	
Tension	Compression
0.0	355.8

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	579.2	474.9	792.7	261.4
OPER	965.4	791.6	1321.2	435.7

Live Load Effect

Impact Factors: ten - .000 comp - .158

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	w/o imp.	Loc. of Conc. Load
INV.	HS20	0.00	R	0.00	0.00	0.00	0.00	0.00
		-126.01	L	-108.81	57.75	-149.69	-129.26	71.75
OPER	HS20	0.00	R	0.00	0.00	0.00	0.00	0.00
		-126.01	L	-108.81	57.75	-149.69	-129.26	71.75
OPER	2F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-55.10	R	-47.58	81.75	0.00	0.00	0.00
OPER	3F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-83.23	R	-71.87	81.75	0.00	0.00	0.00
OPER	4F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-97.01	R	-83.77	85.75	0.00	0.00	0.00
OPER	5C1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-126.58	L	-109.30	55.75	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.75	HS 34.93	62.9
HS20	2.91	HS 58.22	104.8
2F1	7.91	0.00	118.6
3F1	5.24	0.00	120.4
4F1	4.49	0.00	121.3
5C1	3.44	0.00	137.7

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. L 2L 3

RATIO/Inv.	Allowable stress (fs) (psi) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	0.	0.
Fy (compression)	14058.	17531.	0.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
23.917	23.917	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Iy	Dy	Rx	Ry
15.00	31.86	597.64	999.10	7.50	4.33	5.60

Net Section Properties:

Area	Moment of Inertia Ix	Iy	Dy
30.27	718.34	800.48	8.68

Truss influence line - loaded chord:

X ordinates:	0.000	47.833	191.333	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	1.079	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	47.833	191.333	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	1.079	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

	INV. HS20	OPER HS20	POST	SPEC
		2F1		
		3F1		
		4F1		
		5C1		

Truss I. D. 1
Truss Member I. D. L 2L 3

Axial Dead Load	
Tension	Compression
299.4	0.0

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	461.0	372.5	281.3	552.2
OPER	768.3	620.8	468.9	920.3

Live Load Effect

Impact Factors: ten - .158 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	w/o imp.	Loc. of Conc. Load
INV.	HS20	106.82	R	92.24	75.83	125.72	108.56	47.83
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	HS20	106.82	R	92.24	75.83	125.72	108.56	47.83
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	2F1	46.50	R	40.15	57.83	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	70.39	R	60.78	61.83	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	81.44	R	70.33	65.83	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	107.51	L	92.83	35.83	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.24	HS 44.76	80.6
HS20	3.73	HS 74.59	134.3
2F1	10.08	0.00	151.3
3F1	6.66	0.00	153.2
4F1	5.76	0.00	155.4
5C1	4.36	0.00	174.5

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. U 2L 3

RATIO/Inv.	Allowable stress (fs) (psi) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	0.	0.
Fy (compression)	4572.	5702.	0.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
40.958	40.958	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
12.06	14.73	296.08	92.23	-0.70	4.48	2.50

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
14.63	464.19	78.04	0.17

Truss influence line - loaded chord:

X ordinates:	0.000	47.833	71.750	191.333	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	-0.385	0.654	0.000	0.000	0.000	0.000	0.000	0.000

Truss influence line - unloaded chord:

X ordinates:	0.000	47.833	71.750	191.333	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	-0.385	0.654	0.000	0.000	0.000	0.000	0.000	0.000

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

	INV. HS20	OPER HS20	POST	SPEC
Truss I. D. 1		2F1		
Truss Member I. D. U 2L 3		3F1		
		4F1		
		5C1		

Axial Dead Load	
Tension	Compression
95.0	0.0

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	222.9	56.0	165.9	113.0
OPER	371.5	93.3	276.5	188.3

Live Load Effect

Impact Factors: ten - .193 comp - .275

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	w/o imp.	Loc. of Conc. Load
INV.	HS20	65.79	R	55.17	99.75	68.47	57.42	71.75
		-36.13	L	-28.33	19.83	-27.52	-21.58	47.83
OPER	HS20	65.79	R	55.17	99.75	68.47	57.42	71.75
		-36.13	L	-28.33	19.83	-27.52	-21.58	47.83
OPER	2F1	28.91	R	24.24	81.75	0.00	0.00	0.00
		-17.40	L	-13.64	37.83	0.00	0.00	0.00
OPER	3F1	43.64	R	36.59	85.75	0.00	0.00	0.00
		-25.60	L	-20.08	33.83	0.00	0.00	0.00
OPER	4F1	50.34	R	42.21	89.75	0.00	0.00	0.00
		-28.66	L	-22.47	29.83	0.00	0.00	0.00
OPER	5C1	63.23	R	53.02	122.75	0.00	0.00	0.00
		-25.11	L	-19.69	-3.17	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.42	HS 48.45	87.2
HS20	4.04	HS 80.76	145.4
2F1	9.56	0.00	143.5
3F1	6.34	0.00	145.7
4F1	5.49	0.00	148.3
5C1	4.37	0.00	174.9

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. U 3L 3

RATIO/Inv.	Allowable stress (fs) (psi) Inventory 0.00	Operating 0.00	Posting 0.00	Special
Fy (tension)	18150.	24750.	0.	0.
Fy (compression)	8906.	11106.	0.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
35.000	17.500	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Iy	Dy	Rx	Ry
12.24	9.26	230.45	21.07	5.34	4.99	1.51

Net Section Properties:

Area	Moment of Inertia Ix	Iy	Dy
8.49	214.00	12.61	6.27

Truss influence line - loaded chord:

X ordinates:	0.000	71.750	95.667	191.333	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	0.469	-0.425	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	47.833	71.750	191.333	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	0.312	-0.531	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

	INV. HS20	OPER HS20	POST	SPEC
Truss I. D. 1		2F1		
Truss Member I. D. U 3L 3		3F1		
		4F1		
		5C1		

Axial Dead Load	
Tension	Compression
0.0	13.7

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	129.3	68.6	137.5	60.4
OPER	215.5	114.3	229.2	100.7

Live Load Effect

Impact Factors: ten - .239 comp - .215

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	w/o imp.	Loc. of Conc. Load
INV.	HS20	46.19	L	37.29	43.75	39.07	31.54	71.75
		-42.63	R	-35.07	123.67	-39.53	-32.52	95.67
OPER	HS20	46.19	L	37.29	43.75	39.07	31.54	71.75
		-42.63	R	-35.07	123.67	-39.53	-32.52	95.67
OPER	2F1	21.10	L	17.03	61.75	0.00	0.00	0.00
		-19.00	R	-15.63	105.67	0.00	0.00	0.00
OPER	3F1	31.50	L	25.43	57.75	0.00	0.00	0.00
		-28.56	R	-23.50	109.67	0.00	0.00	0.00
OPER	4F1	35.88	L	28.96	53.75	0.00	0.00	0.00
		-32.79	R	-26.98	113.67	0.00	0.00	0.00
OPER	5C1	39.08	L	31.55	20.75	0.00	0.00	0.00
		-39.19	R	-32.25	146.67	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.42	HS 28.34	51.0
HS20	2.36	HS 47.24	85.0
2F1	5.30	0.00	79.5
3F1	3.53	0.00	81.1
4F1	3.07	0.00	82.9
5C1	2.57	0.00	102.8

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. L 3L 4

RATIO/Inv.	Allowable stress (fs) (psi) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	0.	0.
Fy (compression)	14057.	17530.	0.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
23.917	23.917	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
15.00	37.50	703.12	1139.26	7.50	4.33	5.51

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
35.62	845.19	913.36	8.68

Truss influence line - loaded chord:

X ordinates:	0.000	71.750	191.333	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	1.281	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	71.750	191.333	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	1.281	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

	INV. HS20	OPER HS20	POST	SPEC
		2F1		
		3F1		
		4F1		
		5C1		

Truss I. D. 1
Truss Member I. D. L 3L 4

Axial Dead Load	
Tension	Compression
354.9	0.0

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	542.6	438.4	329.7	651.4
OPER	904.3	730.7	549.4	1085.6

Live Load Effect

Impact Factors: ten - .158 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	125.67	L	108.52	57.75	149.29	128.92	71.75
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	HS20	125.67	L	108.52	57.75	149.29	128.92	71.75
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	2F1	54.96	R	47.45	81.75	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	83.00	R	71.68	81.75	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	96.76	R	83.55	85.75	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	126.24	L	109.01	55.75	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.21	HS 44.16	79.5
HS20	3.68	HS 73.60	132.5
2F1	10.00	0.00	150.0
3F1	6.62	0.00	152.2
4F1	5.68	0.00	153.3
5C1	4.35	0.00	174.1

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. U 3U 4

RATIO/Inv.	Allowable stress (fs) (psi) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	0.	0.
Fy (compression)	15022.	18734.	0.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
23.917	23.917	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Iy	Dy	Rx	Ry
25.78	41.21	2775.48	2144.43	21.40	8.21	7.21

Net Section Properties:

Area	Moment of Inertia Ix	Iy	Dy
41.21	2775.48	2144.43	21.40

Truss influence line - loaded chord:

X ordinates:	0.000	95.667	191.333	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	-1.367	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	95.667	191.333	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	-1.367	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

	INV. HS20	OPER HS20	POST	SPEC
		2F1		
		3F1		
		4F1		
		5C1		

Truss I. D. 1
Truss Member I. D. U 3U 4

Axial Dead Load

Tension	Compression
0.0	378.1

Veh.	Axial Load Capacity Tension	Axial Load Capacity Compression	Available Capacity for LL+I Tension	Available Capacity for LL+I Compression
INV.	627.7	514.9	854.5	288.0
OPER	1046.1	858.1	1424.2	480.0

Live Load Effect

Impact Factors: ten - .000 comp - .158

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	0.00	R	0.00	0.00	0.00	0.00	0.00
		-132.95	R	-114.81	109.67	-159.25	-137.51	95.67
OPER	HS20	0.00	R	0.00	0.00	0.00	0.00	0.00
		-132.95	R	-114.81	109.67	-159.25	-137.51	95.67
OPER	2F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-58.20	L	-50.26	85.67	0.00	0.00	0.00
OPER	3F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-88.51	R	-76.43	105.67	0.00	0.00	0.00
OPER	4F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-102.66	L	-88.65	81.67	0.00	0.00	0.00
OPER	5C1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-131.76	R	-113.78	111.67	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.81	HS 36.17	65.1
HS20	3.01	HS 60.29	108.5
2F1	8.25	0.00	123.7
3F1	5.42	0.00	124.7
4F1	4.68	0.00	126.2
5C1	3.64	0.00	145.7

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. U 3L 4

RATIO/Inv.	Allowable stress (fs) (psi) Inventory 0.00	Operating 0.00	Posting 0.00	Special
Fy (tension)	18150.	24750.	0.	0.
Fy (compression)	6622.	8258.	0.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
42.391	21.196	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Iy	Dy	Rx	Ry
12.24	10.49	278.14	25.49	6.12	5.15	1.56

Net Section Properties:

Area	Moment of Inertia Ix	Iy	Dy
9.91	253.85	17.03	7.09

Truss influence line - loaded chord:

X ordinates:	0.000	71.750	95.667	191.333	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	-0.454	0.606	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	71.750	95.667	191.333	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	-0.454	0.606	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

	INV. HS20	OPER HS20	POST	SPEC
		2F1		
		3F1		
		4F1		
		5C1		

Truss I. D. 1
Truss Member I. D. U 3L 4

Axial Dead Load	
Tension	Compression
41.1	0.0

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	150.9	0.0	126.2	0.0
OPER	251.5	0.0	210.3	0.0

Live Load Effect

Impact Factors: ten - .213 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.	w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	w/o imp.	Loc. of Conc. Load
INV.	HS20	60.64 R	49.97	123.67	56.91	46.90	95.67
		0.00 R	0.00	0.00	0.00	0.00	0.00
OPER	HS20	60.64 R	49.97	123.67	56.91	46.90	95.67
		0.00 R	0.00	0.00	0.00	0.00	0.00
OPER	2F1	27.02 R	22.27	105.67	0.00	0.00	0.00
		0.00 R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	40.62 R	33.48	109.67	0.00	0.00	0.00
		0.00 R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	46.65 R	38.44	113.67	0.00	0.00	0.00
		0.00 R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	55.75 R	45.95	146.67	0.00	0.00	0.00
		0.00 R	0.00	0.00	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.08	HS 41.62	74.9
HS20	3.47	HS 69.37	124.9
2F1	7.78	0.00	116.8
3F1	5.18	0.00	119.1
4F1	4.51	0.00	121.7
5C1	3.77	0.00	150.9

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. L 3U 4

RATIO/Inv.	Allowable stress (fs) (psi) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	0.	0.
Fy (compression)	6639.	8279.	0.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
42.391	21.196	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Iy	Dy	Rx	Ry
12.24	10.24	273.45	24.95	6.05	5.17	1.56

Net Section Properties:

Area	Moment of Inertia Ix	Iy	Dy
9.62	249.41	25.67	7.02

Truss influence line - loaded chord:

X ordinates:	0.000	71.750	95.667	191.333	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	0.454	-0.606	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	71.750	95.667	191.333	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	0.454	-0.606	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

INV. HS20	OPER HS20	POST	SPEC
	2F1		
	3F1		
	4F1		
	5C1		

Truss I. D. 1
Truss Member I. D. L 3U 4

Axial Dead Load Tension	Compression
0.0	0.0

Veh.	Axial Load Capacity Tension	Compression	Available Capacity for LL+I Tension	Compression
INV.	146.5	0.0	146.5	0.0
OPER	244.2	0.0	244.2	0.0

Live Load Effect

Impact Factors: ten - .242 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	w/o imp.	Loc. of Conc. Load
INV.	HS20	44.86	L	36.13	43.75	37.41	30.13	71.75
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	HS20	44.86	L	36.13	43.75	37.41	30.13	71.75
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	2F1	20.49	L	16.50	61.75	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	30.59	L	24.64	57.75	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	34.84	L	28.06	53.75	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	37.95	L	30.57	20.75	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	3.27	HS 65.32	117.6
HS20	5.44	HS108.86	196.0
2F1	11.92	0.00	178.8
3F1	7.98	0.00	183.6
4F1	7.01	0.00	189.2
5C1	6.43	0.00	257.4

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. U 4L 4

RATIO/Inv.	Allowable stress (fs) (psi) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	0.	0.
Fy (compression)	9505.	11853.	0.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
35.000	17.500	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
12.24	9.74	248.71	24.33	5.65	5.05	1.58

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
9.04	229.53	15.87	6.61

Truss influence line - loaded chord:

X ordinates:	0.000	191.333	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	71.750	1148.002	1435.002	2296.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	0.000	-1.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

	INV. HS20	OPER HS20	POST	SPEC
		2F1		
		3F1		
		4F1		
		5C1		

Truss I. D. 1
Truss Member I. D. U 4L 4

Axial Dead Load

Tension	Compression
-5.7	5.7

Veh.	Axial Load Capacity Tension	Axial Load Capacity Compression	Available Capacity for LL+I Tension	Available Capacity for LL+I Compression
INV.	137.6	77.0	141.0	73.6
OPER	229.4	128.3	235.0	122.6

Live Load Effect

Impact Factors: ten - .213 comp - .242

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	50.06	R	41.26	123.67	46.99	38.73	95.67
		-37.03	L	-29.83	43.75	-30.89	-24.88	71.75
OPER	HS20	50.06	R	41.26	123.67	46.99	38.73	95.67
		-37.03	L	-29.83	43.75	-30.89	-24.88	71.75
OPER	2F1	42.28	R	32.79	105.67	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	62.45	R	48.44	105.67	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	69.25	L	53.71	81.67	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	60.81	L	47.16	83.67	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.99	HS 39.73	71.5
HS20	3.31	HS 66.21	119.2
2F1	999.00	999.00	999.0
3F1	999.00	999.00	999.0
4F1	999.00	999.00	999.0
5C1	999.00	999.00	999.0

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. L 4L 5

RATIO/Inv.	Allowable stress (fs) (psi) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	0.	0.
Fy (compression)	14057.	17530.	0.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
23.917	23.917	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
15.00	37.50	703.12	1139.26	7.50	4.33	5.51

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
35.62	845.19	913.36	8.68

Truss influence line - loaded chord:

X ordinates:	0.000	119.583	191.333	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	1.281	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	119.583	191.333	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	1.281	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

	INV. HS20	OPER HS20	POST	SPEC
		2F1		
		3F1		
		4F1		
		5C1		

Truss I. D. 1
Truss Member I. D. L 4L 5

Axial Dead Load	
Tension	Compression
354.9	0.0

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	542.6	438.4	329.7	651.4
OPER	904.3	730.7	549.4	1085.6

Live Load Effect

Impact Factors: ten - .158 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	w/o imp.	Loc. of Conc. Load
INV.	HS20	125.67	R	108.52	133.58	149.29	128.92	119.58
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	HS20	125.67	R	108.52	133.58	149.29	128.92	119.58
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	2F1	54.96	L	47.45	109.58	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	83.00	L	71.68	109.58	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	96.76	L	83.55	105.58	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	126.24	R	109.01	135.58	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.21	HS 44.16	79.5
HS20	3.68	HS 73.60	132.5
2F1	10.00	0.00	150.0
3F1	6.62	0.00	152.2
4F1	5.68	0.00	153.3
5C1	4.35	0.00	174.1

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. U 4U 5

RATIO/Inv.	Allowable stress (fs) (psi) Inventory 0.00	Operating 0.00	Posting 0.00	Special
Fy (tension)	18150.	24750.	0.	0.
Fy (compression)	15022.	18734.	0.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
23.917	23.917	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Iy	Dy	Rx	Ry
25.78	41.21	2775.48	2144.43	21.40	8.21	7.21

Net Section Properties:

Area	Moment of Inertia Ix	Iy	Dy
41.21	2775.48	2144.43	21.40

Truss influence line - loaded chord:

X ordinates:	0.000	95.667	191.333	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	-1.367	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	95.667	191.333	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	-1.367	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

	INV. HS20	OPER HS20	POST	SPEC
Truss I. D. 1		2F1		
Truss Member I. D. U 4U 5		3F1		
		4F1		
		5C1		

Axial Dead Load	
Tension	Compression
0.0	378.1

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	627.7	514.9	854.5	288.0
OPER	1046.1	858.1	1424.2	480.0

Live Load Effect

Impact Factors: ten - .000 comp - .158

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	w/o imp.	Loc. of Conc. Load
INV.	HS20	0.00	R	0.00	0.00	0.00	0.00	0.00
		-132.95	R	-114.81	109.67	-159.25	-137.51	95.67
OPER	HS20	0.00	R	0.00	0.00	0.00	0.00	0.00
		-132.95	R	-114.81	109.67	-159.25	-137.51	95.67
OPER	2F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-58.20	L	-50.26	85.67	0.00	0.00	0.00
OPER	3F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-88.51	R	-76.43	105.67	0.00	0.00	0.00
OPER	4F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-102.66	L	-88.65	81.67	0.00	0.00	0.00
OPER	5C1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-131.76	R	-113.78	111.67	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.81	HS 36.17	65.1
HS20	3.01	HS 60.29	108.5
2F1	8.25	0.00	123.7
3F1	5.42	0.00	124.7
4F1	4.68	0.00	126.2
5C1	3.64	0.00	145.7

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. L 4U 5

RATIO/Inv.	Allowable stress (fs) (psi) Inventory 0.00	Operating 0.00	Posting 0.00	Special
Fy (tension)	18150.	24750.	0.	0.
Fy (compression)	6622.	8258.	0.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
42.391	21.196	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Iy	Dy	Rx	Ry
12.24	10.49	278.14	25.49	6.12	5.15	1.56

Net Section Properties:

Area	Moment of Inertia Ix	Iy	Dy
9.91	253.85	17.03	7.09

Truss influence line - loaded chord:

X ordinates:	0.000	95.667	119.583	191.333	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	0.606	-0.454	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	95.667	119.583	191.333	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	0.606	-0.454	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

INV. HS20	OPER HS20	POST	SPEC
	2F1		
	3F1		
	4F1		
	5C1		

Truss I. D. 1
Truss Member I. D. L 4U 5

Axial Dead Load Tension	Compression
41.1	0.0

Veh.	Axial Load Capacity Tension	Compression	Available Capacity for LL+I Tension	Compression
INV.	150.9	0.0	126.2	0.0
OPER	251.5	0.0	210.3	0.0

Live Load Effect

Impact Factors: ten - .213 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	w/o imp.	Loc. of Conc. Load
INV.	HS20	60.64	L	49.97	67.67	56.91	46.90	95.67
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	HS20	60.64	L	49.97	67.67	56.91	46.90	95.67
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	2F1	27.02	L	22.27	85.67	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	40.63	L	33.48	81.67	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	46.65	L	38.44	77.67	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	55.75	L	45.95	44.67	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.08	HS 41.62	74.9
HS20	3.47	HS 69.37	124.9
2F1	7.78	0.00	116.8
3F1	5.18	0.00	119.1
4F1	4.51	0.00	121.7
5C1	3.77	0.00	150.9

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. U 4L 5

RATIO/Inv.	Allowable stress (fs) (psi) Inventory 0.00	Operating 0.00	Posting 0.00	Special
Fy (tension)	18150.	24750.	0.	0.
Fy (compression)	6404.	7986.	0.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
42.391	21.196	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Iy	Dy	Rx	Ry
12.24	9.82	251.79	23.07	5.71	5.06	1.53

Net Section Properties:

Area	Moment of Inertia Ix	Iy	Dy
9.13	232.10	14.61	6.66

Truss influence line - loaded chord:

X ordinates:	0.000	95.667	119.583	191.333	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	-0.606	0.454	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	95.667	119.583	191.333	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	-0.606	0.454	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

INV. HS20	OPER HS20	POST	SPEC
	2F1		
	3F1		
	4F1		
	5C1		

Truss I. D. 1
Truss Member I. D. U 4L 5

Axial Dead Load	
Tension	Compression
0.0	0.0

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	139.1	0.0	139.1	0.0
OPER	231.8	0.0	231.8	0.0

Live Load Effect

Impact Factors: ten - .242 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	44.86	R	36.13	147.58	37.41	30.13	119.58
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	HS20	44.86	R	36.13	147.58	37.41	30.13	119.58
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	2F1	20.49	R	16.50	129.58	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	30.59	R	24.64	133.58	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	34.84	R	28.06	137.58	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	37.95	R	30.57	170.58	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	3.10	HS 62.02	111.6
HS20	5.17	HS103.37	186.1
2F1	11.32	0.00	169.8
3F1	7.58	0.00	174.3
4F1	6.65	0.00	179.7
5C1	6.11	0.00	244.4

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. U 5L 5

RATIO/Inv.	Allowable stress (fs) (psi) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	0.	0.
Fy (compression)	8966.	11182.	0.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
35.000	17.500	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
12.24	9.41	236.80	21.60	5.45	5.02	1.52

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
8.66	219.45	13.14	6.39

Truss influence line - loaded chord:

X ordinates:	0.000	95.667	119.583	191.333	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	-0.425	0.469	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	119.583	143.500	191.333	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	-0.531	0.312	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

	INV. HS20	OPER HS20	POST	SPEC
		2F1		
		3F1		
		4F1		
		5C1		

Truss I. D. 1
Truss Member I. D. U 5L 5

Axial Dead Load	
Tension	Compression
0.0	13.7

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	131.9	70.2	140.1	62.0
OPER	219.8	116.9	233.5	103.3

Live Load Effect

Impact Factors: ten - .239 comp - .215

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	w/o imp.	Loc. of Conc. Load
INV.	HS20	46.19	R	37.29	147.58	39.07	31.54	119.58
		-42.63	L	-35.07	67.67	-39.53	-32.52	95.67
OPER	HS20	46.19	R	37.29	147.58	39.07	31.54	119.58
		-42.63	L	-35.07	67.67	-39.53	-32.52	95.67
OPER	2F1	21.10	R	17.03	129.58	0.00	0.00	0.00
		-19.00	L	-15.63	85.67	0.00	0.00	0.00
OPER	3F1	31.50	R	25.43	133.58	0.00	0.00	0.00
		-28.56	L	-23.50	81.67	0.00	0.00	0.00
OPER	4F1	35.88	R	28.96	137.58	0.00	0.00	0.00
		-32.79	L	-26.98	77.67	0.00	0.00	0.00
OPER	5C1	39.08	R	31.55	170.58	0.00	0.00	0.00
		-39.19	L	-32.25	44.67	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.45	HS 29.08	52.3
HS20	2.42	HS 48.46	87.2
2F1	5.44	0.00	81.6
3F1	3.62	0.00	83.2
4F1	3.15	0.00	85.0
5C1	2.63	0.00	105.4

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. L 5L 6

RATIO/Inv.	Allowable stress (fs) (psi) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	0.	0.
Fy (compression)	14058.	17531.	0.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
23.917	23.917	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
15.00	31.86	597.64	999.10	7.50	4.33	5.60

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
30.27	718.34	800.48	8.68

Truss influence line - loaded chord:

X ordinates:	0.000	143.500	191.333	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	1.079	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	143.500	191.333	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	1.079	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

	INV. HS20	OPER HS20	POST	SPEC
		2F1		
		3F1		
		4F1		
		5C1		

Truss I. D. 1
Truss Member I. D. L 5L 6

Axial Dead Load	
Tension	Compression
299.4	0.0

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	461.0	372.5	281.3	552.2
OPER	768.3	620.8	468.9	920.3

Live Load Effect

Impact Factors: ten - .158 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	w/o imp.	Loc. of Conc. Load
INV.	HS20	106.82	L	92.24	115.50	125.72	108.56	143.50
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	HS20	106.82	L	92.24	115.50	125.72	108.56	143.50
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	2F1	46.50	L	40.15	133.50	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	70.39	L	60.78	129.50	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	81.44	L	70.33	125.50	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	107.51	R	92.83	155.50	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.24	HS 44.76	80.6
HS20	3.73	HS 74.59	134.3
2F1	10.08	0.00	151.3
3F1	6.66	0.00	153.2
4F1	5.76	0.00	155.4
5C1	4.36	0.00	174.5

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. U 5U 6

RATIO/Inv.	Allowable stress (fs) (psi) Inventory 0.00	Operating 0.00	Posting 0.00	Special
Fy (tension)	18150.	24750.	0.	0.
Fy (compression)	15016.	18726.	0.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
23.981	23.981	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Iy	Dy	Rx	Ry
25.84	38.03	2805.75	1967.05	20.02	8.59	7.19

Net Section Properties:

Area	Moment of Inertia Ix	Iy	Dy
38.03	2805.75	1967.05	20.02

Truss influence line - loaded chord:

X ordinates:	0.000	119.583	191.333	0.000	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	-1.285	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Truss influence line - unloaded chord:

X ordinates:	0.000	119.583	191.333	0.000	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	-1.285	0.000	0.000	0.000	0.000	0.000	0.000	0.000

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

	INV. HS20	OPER HS20	POST	SPEC
		2F1		
		3F1		
		4F1		
		5C1		

Truss I. D. 1
Truss Member I. D. U 5U 6

Axial Dead Load

Tension	Compression
0.0	355.8

Veh.	Axial Load Capacity Tension	Axial Load Capacity Compression	Available Capacity for LL+I Tension	Available Capacity for LL+I Compression
INV.	579.2	474.9	792.7	261.4
OPER	965.4	791.6	1321.2	435.7

Live Load Effect

Impact Factors: ten - .000 comp - .158

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	0.00	R	0.00	0.00	0.00	0.00	0.00
		-126.01	R	-108.81	133.58	-149.69	-129.26	119.58
OPER	HS20	0.00	R	0.00	0.00	0.00	0.00	0.00
		-126.01	R	-108.81	133.58	-149.69	-129.26	119.58
OPER	2F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-55.10	L	-47.58	109.58	0.00	0.00	0.00
OPER	3F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-83.23	L	-71.87	109.58	0.00	0.00	0.00
OPER	4F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-97.01	L	-83.77	105.58	0.00	0.00	0.00
OPER	5C1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-126.58	R	-109.30	135.58	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.75	HS 34.93	62.9
HS20	2.91	HS 58.22	104.8
2F1	7.91	0.00	118.6
3F1	5.24	0.00	120.4
4F1	4.49	0.00	121.3
5C1	3.44	0.00	137.7

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. L 5U 6

RATIO/Inv.	Allowable stress (fs) (psi) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	0.	0.
Fy (compression)	4489.	5598.	0.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
40.958	40.958	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Iy	Dy	Rx	Ry
12.06	15.48	424.99	95.17	0.00	5.24	2.48

Net Section Properties:

Area	Moment of Inertia Ix	Iy	Dy
15.48	587.19	67.19	0.89

Truss influence line - loaded chord:

X ordinates:	0.000	119.583	143.500	191.333	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	0.654	-0.385	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	119.583	143.500	191.333	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	0.654	-0.385	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

	INV. HS20	OPER HS20	POST	SPEC
		2F1		
		3F1		
		4F1		
		5C1		

Truss I. D. 1
Truss Member I. D. L 5U 6

Axial Dead Load

Tension	Compression
95.0	0.0

Veh.	Axial Load Capacity Tension	Axial Load Capacity Compression	Available Capacity for LL+I Tension	Available Capacity for LL+I Compression
INV.	235.7	57.8	178.7	114.8
OPER	392.8	96.3	297.8	191.3

Live Load Effect

Impact Factors: ten - .193 comp - .275

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	65.79	L	55.17	91.58	68.47	57.42	119.58
		-36.13	R	-28.33	171.50	-27.52	-21.58	143.50
OPER	HS20	65.79	L	55.17	91.58	68.47	57.42	119.58
		-36.13	R	-28.33	171.50	-27.52	-21.58	143.50
OPER	2F1	28.91	L	24.24	109.58	0.00	0.00	0.00
		-17.40	R	-13.64	153.50	0.00	0.00	0.00
OPER	3F1	43.64	L	36.59	105.58	0.00	0.00	0.00
		-25.60	R	-20.08	157.50	0.00	0.00	0.00
OPER	4F1	50.34	L	42.21	101.58	0.00	0.00	0.00
		-28.66	R	-22.47	161.50	0.00	0.00	0.00
OPER	5C1	63.23	L	53.02	68.58	0.00	0.00	0.00
		-25.11	R	-19.69	194.50	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.61	HS 52.20	94.0
HS20	4.35	HS 86.99	156.6
2F1	10.30	0.00	154.6
3F1	6.82	0.00	157.0
4F1	5.92	0.00	159.7
5C1	4.71	0.00	188.4

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. U 6L 6

RATIO/Inv.	Allowable stress (fs) (psi) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	0.	0.
Fy (compression)	9677.	12068.	0.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
33.250	33.250	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
12.12	18.11	439.12	168.21	-0.42	4.92	3.05

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
18.11	626.22	129.69	0.39

Truss influence line - loaded chord:

X ordinates:	0.000	119.583	143.500	191.333	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	-0.428	0.487	0.000	0.000	0.000	0.000	0.000	0.000

Truss influence line - unloaded chord:

X ordinates:	0.000	143.500	167.417	191.333	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	-0.513	0.243	0.000	0.000	0.000	0.000	0.000	0.000

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

	INV. HS20	OPER HS20	POST	SPEC
		2F1		
		3F1		
		4F1		
		5C1		

Truss I. D. 1
Truss Member I. D. U 6L 6

Axial Dead Load	
Tension	Compression
0.0	43.0

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	275.9	145.8	301.7	120.0
OPER	459.8	243.0	502.8	199.9

Live Load Effect

Impact Factors: ten - .269 comp - .195

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	w/o imp.	Loc. of Conc. Load
INV.	HS20	45.48	R	35.83	171.50	29.34	23.11	143.50
		-43.10	L	-36.05	91.58	-38.86	-32.50	119.58
OPER	HS20	45.48	R	35.83	171.50	29.34	23.11	143.50
		-43.10	L	-36.05	91.58	-38.86	-32.50	119.58
OPER	2F1	21.91	R	17.26	153.50	0.00	0.00	0.00
		-18.93	L	-15.84	109.58	0.00	0.00	0.00
OPER	3F1	32.23	R	25.39	157.50	0.00	0.00	0.00
		-28.58	L	-23.91	105.58	0.00	0.00	0.00
OPER	4F1	36.08	R	28.42	161.50	0.00	0.00	0.00
		-32.98	L	-27.58	101.58	0.00	0.00	0.00
OPER	5C1	32.16	L	25.33	131.50	0.00	0.00	0.00
		-41.42	L	-34.65	68.58	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.78	HS 55.67	100.2
HS20	4.64	HS 92.79	167.0
2F1	10.56	0.00	158.4
3F1	6.99	0.00	160.9
4F1	6.06	0.00	163.7
5C1	4.83	0.00	193.1

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. L 6L 7

RATIO/Inv.	Allowable stress (fs) (psi) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	0.	0.
Fy (compression)	14057.	17530.	0.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
23.917	23.917	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Iy	Dy	Rx	Ry
15.00	22.50	421.86	743.54	7.50	4.33	5.75

Net Section Properties:

Area	Moment of Inertia Ix	Iy	Dy
21.38	507.10	595.25	8.68

Truss influence line - loaded chord:

X ordinates:	0.000	167.417	191.333	0.000	0.000	0.000	0.000	0		
.000	0.000	0.000								
Y ordinates:	0.000	0.747	0.000	0.000	0.000	0.000	0.000	0		
.000	0.000	0.000								

Truss influence line - unloaded chord:

X ordinates:	0.000	167.417	191.333	0.000	0.000	0.000	0.000	0		
.000	0.000	0.000								
Y ordinates:	0.000	0.747	0.000	0.000	0.000	0.000	0.000	0		
.000	0.000	0.000								

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

	INV. HS20	OPER HS20	POST	SPEC
		2F1		
		3F1		
		4F1		
		5C1		

Truss I. D. 1
Truss Member I. D. L 6L 7

Axial Dead Load	
Tension	Compression
210.6	0.0

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	325.6	263.0	199.2	389.4
OPER	542.6	438.4	332.0	649.1

Live Load Effect

Impact Factors: ten - .158 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	w/o imp.	Loc. of Conc. Load
INV.	HS20	74.73	L	64.53	139.42	87.09	75.20	167.42
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	HS20	74.73	L	64.53	139.42	87.09	75.20	167.42
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	2F1	32.32	L	27.91	157.42	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	49.01	L	42.32	153.42	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	56.84	L	49.08	149.42	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	75.21	L	64.95	116.42	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.29	HS 45.74	82.3
HS20	3.81	HS 76.24	137.2
2F1	10.27	0.00	154.1
3F1	6.77	0.00	155.8
4F1	5.84	0.00	157.7
5C1	4.41	0.00	176.5

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. U 6U 7

RATIO/Inv.	Allowable stress (fs) (psi) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	0.	0.
Fy (compression)	15011.	18720.	0.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
24.486	24.486	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
25.75	34.10	2388.22	1822.35	21.05	8.37	7.31

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
34.10	2388.22	1822.35	21.05

Truss influence line - loaded chord:

X ordinates:	0.000	143.500	191.333	0.000	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	-1.105	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Truss influence line - unloaded chord:

X ordinates:	0.000	143.500	191.333	0.000	0.000	0.000	0.000	0.000	0.000
Y ordinates:	0.000	-1.105	0.000	0.000	0.000	0.000	0.000	0.000	0.000

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

	INV. HS20	OPER HS20	POST	SPEC
		2F1		
		3F1		
		4F1		
		5C1		

Truss I. D. 1
Truss Member I. D. U 6U 7

Axial Dead Load

Tension	Compression
0.0	306.6

Veh.	Axial Load Capacity Tension	Axial Load Capacity Compression	Available Capacity for LL+I Tension	Available Capacity for LL+I Compression
INV.	519.4	425.7	703.3	241.8
OPER	865.6	709.5	1172.2	403.0

Live Load Effect

Impact Factors: ten - .000 comp - .158

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	0.00	R	0.00	0.00	0.00	0.00	0.00
		-109.37	L	-94.44	115.50	-128.71	-111.15	143.50
OPER	HS20	0.00	R	0.00	0.00	0.00	0.00	0.00
		-109.37	L	-94.44	115.50	-128.71	-111.15	143.50
OPER	2F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-47.61	L	-41.11	133.50	0.00	0.00	0.00
OPER	3F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-72.06	L	-62.23	129.50	0.00	0.00	0.00
OPER	4F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-83.38	L	-72.00	125.50	0.00	0.00	0.00
OPER	5C1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-110.07	R	-95.04	155.50	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.88	HS 37.57	67.6
HS20	3.13	HS 62.62	112.7
2F1	8.47	0.00	127.0
3F1	5.59	0.00	128.6
4F1	4.83	0.00	130.5
5C1	3.66	0.00	146.5

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. L 6U 7

RATIO/Inv.	Allowable stress (fs) (psi) Inventory 0.00	Operating 0.00	Posting 0.00	Special
Fy (tension)	18150.	24750.	0.	0.
Fy (compression)	5543.	6913.	0.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
36.824	36.824	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Iy	Dy	Rx	Ry
12.19	16.25	364.36	99.75	-0.55	4.74	2.48

Net Section Properties:

Area	Moment of Inertia Ix	Iy	Dy
16.13	549.22	68.60	0.32

Truss influence line - loaded chord:

X ordinates:	0.000	143.500	167.417	191.333	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	0.675	-0.320	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	143.500	167.417	191.333	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	0.675	-0.320	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

	INV. HS20	OPER HS20	POST	SPEC
		2F1		
		3F1		
		4F1		
		5C1		

Truss I. D. 1
Truss Member I. D. L 6U 7

Axial Dead Load	
Tension	Compression
136.7	0.0

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	245.6	74.9	163.6	156.9
OPER	409.4	124.9	272.7	261.6

Live Load Effect

Impact Factors: ten - .176 comp - .300

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	w/o imp.	Loc. of Conc. Load
INV.	HS20	67.83	L	57.70	115.50	77.70	66.09	143.50
		-23.93	R	-18.40	195.42	-19.09	-14.68	167.42
OPER	HS20	67.83	L	57.70	115.50	77.70	66.09	143.50
		-23.93	R	-18.40	195.42	-19.09	-14.68	167.42
OPER	2F1	29.53	L	25.12	133.50	0.00	0.00	0.00
		-13.65	R	-10.50	177.42	0.00	0.00	0.00
OPER	3F1	44.69	L	38.02	129.50	0.00	0.00	0.00
		-19.10	R	-14.69	181.42	0.00	0.00	0.00
OPER	4F1	51.71	L	43.99	125.50	0.00	0.00	0.00
		-20.05	R	-15.43	185.42	0.00	0.00	0.00
OPER	5C1	67.00	L	56.99	92.50	0.00	0.00	0.00
		-16.47	R	-12.67	218.42	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.11	HS 42.12	75.8
HS20	3.51	HS 70.19	126.3
2F1	9.24	0.00	138.5
3F1	6.10	0.00	140.3
4F1	5.27	0.00	142.4
5C1	4.07	0.00	162.8

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. U 7L 7

RATIO/Inv.	Allowable stress (fs) (psi) Inventory 0.00	Operating 0.00	Posting 0.00	Special
Fy (tension)	18150.	24750.	0.	0.
Fy (compression)	5690.	7096.	0.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
28.000	28.000	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Iy	Dy	Rx	Ry
13.78	10.56	156.02	38.47	0.71	3.84	1.91

Net Section Properties:

Area	Moment of Inertia Ix	Iy	Dy
10.08	252.29	25.76	1.32

Truss influence line - loaded chord:

X ordinates:	0.000	143.500	167.417	191.334	191.333	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	0.000	1.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	191.333	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

INV. HS20	OPER HS20	POST	SPEC
	2F1		
	3F1		
	4F1		
	5C1		

Truss I. D. 1
Truss Member I. D. U 7L 7

Axial Dead Load	
Tension	Compression
71.3	0.0

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	153.6	50.0	110.8	92.7
OPER	255.9	83.3	184.7	154.6

Live Load Effect

Impact Factors: ten - .289 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		Truck Live Load Force w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	Lane Live Load Force w/o imp.	Loc. of Conc. Load
INV.	HS20	79.55	L	61.70	153.42	54.54	42.30	167.42
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	HS20	79.55	L	61.70	153.42	54.54	42.30	167.42
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	2F1	42.28	R	32.79	177.42	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	62.45	R	48.44	177.42	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	69.25	R	53.71	181.42	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	60.81	R	47.16	179.42	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	1.39	HS 27.86	50.1
HS20	2.32	HS 46.43	83.6
2F1	4.37	0.00	65.5
3F1	2.96	0.00	68.0
4F1	2.67	0.00	72.0
5C1	3.04	0.00	121.5

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. L 7L 8

RATIO/Inv.	Allowable stress (fs) (psi) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	0.	0.
Fy (compression)	14057.	17530.	0.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
23.917	23.917	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
15.00	22.50	421.86	743.54	7.50	4.33	5.75

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
21.38	507.10	595.25	8.68

Truss influence line - loaded chord:

X ordinates:	0.000	167.417	191.333	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	0.747	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	167.417	191.333	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	0.747	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

INV. HS20	OPER HS20	POST	SPEC
	2F1		
	3F1		
	4F1		
	5C1		

Truss I. D. 1
Truss Member I. D. L 7L 8

Axial Dead Load	
Tension	Compression
210.6	0.0

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	325.6	263.0	199.2	389.4
OPER	542.6	438.4	332.0	649.1

Live Load Effect

Impact Factors: ten - .158 comp - .000

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	w/o imp.	Loc. of Conc. Load
INV.	HS20	74.73	L	64.53	139.42	87.09	75.20	167.42
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	HS20	74.73	L	64.53	139.42	87.09	75.20	167.42
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	2F1	32.32	L	27.91	157.42	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	3F1	49.01	L	42.32	153.42	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	4F1	56.84	L	49.08	149.42	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00
OPER	5C1	75.21	L	64.95	116.42	0.00	0.00	0.00
		0.00	R	0.00	0.00	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.29	HS 45.74	82.3
HS20	3.81	HS 76.24	137.2
2F1	10.27	0.00	154.1
3F1	6.77	0.00	155.8
4F1	5.84	0.00	157.7
5C1	4.41	0.00	176.5

SECTION DATA (ASD/LFD)

Structure I. D. HAM500

Truss I. D. 1
Truss Member I. D. U 7L 8

RATIO/Inv.	Allowable stress (fs) (psi) 0.00 Inventory	0.00 Operating	0.00 Posting	0.00 Special
Fy (tension)	18150.	24750.	0.	0.
Fy (compression)	14277.	17804.	0.	0.
Fy (ultimate)	33000.			

Member Properties:

Effective Length X (ft)	Effective Length Y (ft)	Eccentricity Y (in)	End Cond.	Batton
36.823	36.823	0.00	P	1.0

Gross Section Properties:

Height	Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy	Rx	Ry
25.78	41.21	2775.48	2144.43	21.40	8.21	7.21

Net Section Properties:

Area	Moment of Inertia Ix	Moment of Inertia Iy	Dy
41.21	2775.48	2144.43	21.40

Truss influence line - loaded chord:

X ordinates:	0.000	167.417	191.333	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	-1.151	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

Truss influence line - unloaded chord:

X ordinates:	0.000	167.417	191.333	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							
Y ordinates:	0.000	-1.151	0.000	0.000	0.000	0.000	0.000	0	
.000	0.000	0.000							

RATING REPORT

Structure I. D. HAM500

Rating Types and Vehicles

	INV. HS20	OPER HS20	POST	SPEC
		2F1		
		3F1		
		4F1		
		5C1		

Truss I. D. 1
Truss Member I. D. U 7L 8

Axial Dead Load	
Tension	Compression
0.0	324.3

Veh.	Axial Load Capacity		Available Capacity for LL+I	
	Tension	Compression	Tension	Compression
INV.	627.7	489.3	822.3	294.7
OPER	1046.1	815.6	1370.4	491.2

Live Load Effect

Impact Factors: ten - .000 comp - .158

Rat. Typ.	Rat. Veh.	Truck Live Load Force w/imp.		w/o imp.	Loc. of Front Wheel	Lane Live Load Force w/imp.	w/o imp.	Loc. of Conc. Load
INV.	HS20	0.00	R	0.00	0.00	0.00	0.00	0.00
		-115.06	L	-99.36	139.42	-147.63	-127.48	167.42
OPER	HS20	0.00	R	0.00	0.00	0.00	0.00	0.00
		-115.06	L	-99.36	139.42	-147.63	-127.48	167.42
OPER	2F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-49.76	L	-42.97	157.42	0.00	0.00	0.00
OPER	3F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-75.47	L	-65.17	153.42	0.00	0.00	0.00
OPER	4F1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-87.51	L	-75.57	149.42	0.00	0.00	0.00
OPER	5C1	0.00	R	0.00	0.00	0.00	0.00	0.00
		-115.80	L	-100.00	116.42	0.00	0.00	0.00

Veh.	Rating Factor	Axial Rating Value	Load Capacity (tons)
HS20	2.00	HS 39.93	71.9
HS20	3.33	HS 66.55	119.8
2F1	9.87	0.00	148.1
3F1	6.51	0.00	149.7
4F1	5.61	0.00	151.6
5C1	4.24	0.00	169.7