BEARING SCHEDULE
BRIDGE 2B - SERVICE LOADS

PIER	BEAM	BEARING TYPE	DEAD LOAD (KIPS)	SDL (KIPS)	MAX LL+I (KIPS)	MIN LL+I (KIPS)	MAXIMUM VERTICAL LOAD (KIPS)	MINIMUM VERTICAL LOAD (KIPS)	HORIZONTAL CAPACITY (KIPS)
1	1	FREE	73.04	20.46	60.88	-21.45	155	72	16
	2	FREE	107.15	29.51	77.10	-5.73	214	130	22
	3	GUIDED	118.95	33.17	78.97	-8.60	232	143	70
	4	FREE	144.23	41.01	93.65	-19.00	279	166	28
2	1	FREE	365.64	98.69	168.45	-32.91	633	431	64
	2	FREE	341.58	91.64	135.22	-7.75	569	425	57
	3	GUIDED	414.77	113.13	173.03	-16.04	701	511	211
	4	FREE	323.12	89.37	146.69	-14.56	560	397	56
3	1	GUIDED	292.04	83.19	155.31	-38.86	531	336	160
	2	GUIDED	269.35	75.42	128.73	-15.14	474	329	143
	3	FIXED	308.52	87.89	159.29	-31.33	556	365	167
	4	GUIDED	256.08	74.41	140.09	-27.01	471	303	142
4	1	FREE	285.70	81.26	145.92	-30.16	513	336	52
	2	FREE	275.24	76.93	124.66	-9.90	477	342	48
	3	GUIDED	323.99	91.33	152.33	-20.37	568	394	171
	4	FREE	268.50	77.76	135.98	-19.93	483	326	49
5BK	1	FREE	66.08	19.02	58.93	-17.18	145	67	15
	2	FREE	76.20	22.09	72.77	-7.00	172	91	18
	3	GUIDED	88.88	24.23	72.81	-11.10	186	102	56
	4	FREE	88.88	26.76	80.44	-21.04	197	94	20
5AH	1	FREE	67.10	19.61	61.56	-17.63	149	69	15
	2	FREE	85.48	23.48	79.16	-6.45	189	102	19
	3	GUIDED	90.67	26.97	79.37	-10.96	198	106	60
	4	FREE	102.11	29.72	84.96	-20.39	217	111	22
6	1	FREE	306.26	86.78	152.93	-31.93	546	361	55
	2	FREE	291.86	80.95	129.39	-10.19	503	362	51
	3	GUIDED	339.54	97.23	159.08	-20.20	596	416	179
	4	FREE	277.36	79.78	136.20	-18.53	494	338	50
7	1	FREE	289.26	81.66	161.85	-48.91	533	322	54
	2	FREE	274.39	76.56	133.53	-17.05	485	333	49
	3	GUIDED	322.90	91.23	165.55	-31.76	580	382	174
	4	FREE	263.89	75.47	139.59	-25.92	479	313	48
8	1	GUIDED	334.50	96.46	179.52	-44.46	611	386	184
	2	GUIDED	299.03	84.67	140.49	-15.14	525	368	158
	3	FIXED	333.37	95.08	166.02	-28.70	595	399	179
	4	GUIDED	272.46	78.73	150.18	-36.06	502	315	151
9	1	FREE	345.47	97.85	164.99	-27.47	609	415	61
	2	FREE	374.21	103.79	156.47	-8.56	635	469	64
	3	GUIDED	372.89	105.04	160.37	-11.23	639	466	192
	4	FREE	384.79	107.44	179.42	-29.45	672	462	68

10BK	1	FREE	87.41	25.03	68.98	-21.69	182	90	19
	2	FREE	102.96	29.47	73.03	-7.94	206	124	21
	3	GUIDED	112.76	31.99	74.70	-9.17	220	135	66
	4	FREE	122.86	35.53	86.15	-19.00	245	139	25
10AH	1	FREE	82.47	23.58	65.74	-19.62	172	86	18
	2	FREE	92.17	26.74	71.55	-6.93	191	111	20
	3	GUIDED	105.70	29.78	72.12	-8.01	208	127	63
	4	FREE	107.28	31.33	77.30	-16.04	216	122	22
11	1	FREE	307.74	89.64	162.26	-36.19	560	361	56
	2	FREE	297.43	85.76	136.58	-10.49	520	372	52
	3	GUIDED	325.20	94.09	149.75	-13.08	570	406	171
	4	FREE	289.97	84.66	145.63	-24.28	521	350	53
12	1	GUIDED	316.38	92.67	160.17	-28.76	570	380	171
	2	GUIDED	322.73	93.87	147.85	-10.89	565	405	170
	3	FIXED	322.65	93.73	148.46	-12.47	565	403	170
	4	GUIDED	310.63	91.06	161.06	-32.01	563	369	169
13	1	FREE	279.19	81.18	145.50	-27.87	506	332	51
	2	FREE	293.27	84.23	139.00	-12.18	517	365	52
	3	GUIDED	285.48	82.71	137.38	-12.15	506	356	152
	4	FREE	282.44	81.93	148.24	-28.55	513	335	52
14BK	1	FREE	42.64	12.35	65.09	-27.36	121	27	13
	2	FREE	44.82	12.10	70.76	-17.53	128	39	13
	3	GUIDED	43.95	12.05	70.61	-17.03	127	38	39
	4	FREE	38.83	11.11	61.65	-26.11	112	23	12
14AH	1	FREE	204.61	49.60	100.02	-14.97	355	239	36
	2	FREE	163.62	40.80	80.98	-7.35	286	197	29
	3	GUIDED	144.87	36.28	77.67	-6.33	259	174	78
	4	FREE	117.20	28.93	72.94	-21.84	220	124	22
15	1	FREE	436.13	106.66	172.21	-24.09	715	518	72
	2	FREE	498.32	121.73	186.84	-16.27	807	603	81
	3	GUIDED	420.62	103.03	161.32	-12.07	685	511	206
	4	FREE	442.78	109.43	193.52	-46.44	746	505	75
16	1	GUIDED	425.50	106.19	184.17	-38.79	716	492	215
	2	GUIDED	441.93	109.55	173.43	-16.89	725	534	218
	3	FIXED	448.68	110.96	172.08	-12.24	732	547	220
	4	GUIDED	443.86	110.42	181.82	-30.78	737	523	222
17	1	FREE	154.56	38.80	85.59	-17.78	279	175	28
	2	FREE	154.20	39.11	80.33	-7.39	274	185	28
	3	GUIDED	155.84	39.38	79.72	-7.02	275	188	83
	4	FREE	148.61	37.45	84.70	-19.05	271	167	28

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Girder System : Analysis Output : Reactions - Girder 1 = BEAM 4

BRIDGE 2B

SPANS 1-4

Girder 1 Service Vertical Reactions - k

Supp/Node	Noncomp Dead	Super-Imposed Dead	Max Live+ Impact	Min Live+ Impact	Sidewalk Max	Sidewalk Min
Governing						
1 1	144.23	41.01	93.65	-19.00	0.00	0.00
Steel	45.11					
Concrete	99.12					

Global x concurrent LL+I rot. 0.0123 -0.0305 deg
Global y concurrent LL+I rot. 0.0541 -0.0219 deg

Max LL+I Contribution by Lane

1	2
69.33	24.33

Concurrent reactions using same governing loaded lanes as for Max LL+I

Concurrent at gdr 2 - 64.53

Concurrent at gdr 3 - 50.25

Concurrent at gdr 4 - 16.43

2 23	323.12	89.37	146.69	-14.56	0.00	0.00
Steel	108.92					
Concrete	214.20					

Global x concurrent LL+I rot. 0.0101 -0.0090 deg
Global y concurrent LL+I rot. 0.0375 -0.0393 deg

Max LL+I Contribution by Lane

1	2
117.20	29.49

Concurrent reactions using same governing loaded lanes as for Max LL+I

Concurrent at gdr 2 - 3 168.17

Concurrent at gdr 3 - 2 114.16

Concurrent at gdr 4 - 1 47.14

3 63	256.08	74.41	140.09	-27.01	0.00	0.00
Steel	78.38					
Concrete	177.70					

Global x concurrent LL+I rot. 0.0017 -0.0012 deg
Global y concurrent LL+I rot. 0.0347 -0.0369 deg

Max LL+I Contribution by Lane

```
        1          2
    112.51     27.58

Concurrent reactions using same governing loaded lanes
as for Max LL+I

 Concurrent at gdr  2 - 3  152.83

 Concurrent at gdr  3 - 2  104.89

 Concurrent at gdr  4 - 1   44.85

4  103    268.50     77.76    135.98    -19.93    0.00     0.00
   Steel     79.94
   Concrete 188.57

Global x concurrent LL+I rot.   0.0088   -0.0096 deg
Global y concurrent LL+I rot.   0.0276   -0.0318 deg

Max LL+I Contribution by Lane
        1          2
    109.81     26.17

Concurrent reactions using same governing loaded lanes
as for Max LL+I

 Concurrent at gdr  2 - 3  145.11

 Concurrent at gdr  3 - 2  100.85

 Concurrent at gdr  4 - 1   40.16

PIER 5  139     88.88     26.76     80.44    -21.04    0.00     0.00
   Steel     25.63
   Concrete  63.25

Global x concurrent LL+I rot.  -0.0151   -0.0207 deg
Global y concurrent LL+I rot.  -0.0267   -0.0366 deg

Max LL+I Contribution by Lane
        1          2
     62.92     17.52

Concurrent reactions using same governing loaded lanes
as for Max LL+I

 Concurrent at gdr  2 - 3   49.54

 Concurrent at gdr  3 - 2   38.83

 Concurrent at gdr  4 - 1    6.30


Truck Loading

   1    1                        87.57    -13.60
   2   23                        89.70     -7.16
   3   63                        87.67    -12.12
   4  103                        87.06    -10.89
   5  139                        79.84    -14.52

Lane Loading
```

1	1	93.65	-18.51
2	23	146.69	-8.72
3	63	140.09	-21.53
4	103	135.98	-13.97
5	139	76.02	-19.92

Fatigue Truck

1	1	50.12	-10.40
2	23	54.87	-5.46
3	63	54.27	-9.32
4	103	54.23	-8.30
5	139	47.58	-11.02

Support Rotations - Degrees

About global axes used in Girder Geometry table

Supp/Node		Noncomp Dead x-axis	Noncomp Dead y-axis	Superimp Dead x-axis	Superimp Dead y-axis	LL+I+SDWK Range x-axis	LL+I+SDWK Range y-axis
1	1	0.23	0.42	0.06	0.11	(-0.09 to 0.03)	(-0.06 to 0.15)
		Concurrent live vertical reaction				56.28 -7.23	-7.23 56.28
2	23	-0.04	-0.14	-0.01	-0.04	(-0.03 to 0.03)	(-0.11 to 0.11)
		Concurrent live vertical reaction				39.99 52.50	52.50 39.99
3	63	0.00	0.04	0.00	0.01	(0.00 to 0.00)	(-0.10 to 0.10)
		Concurrent live vertical reaction				45.80 52.21	53.23 52.21
4	103	0.00	-0.01	0.00	0.00	(-0.03 to 0.03)	(-0.09 to 0.08)
		Concurrent live vertical reaction				52.78 52.75	52.78 52.75
5	139	0.11	-0.20	0.03	-0.05	(-0.06 to 0.03)	(-0.10 to 0.05)
		Concurrent live vertical reaction				53.12 -7.69	53.12 -7.69

Torsional and flexural rotations - member local axes

Supp/Node		Noncomp Dead tors	Noncomp Dead flex	Superimp Dead tors	Superimp Dead flex	LL+I+SDWK Range tors	LL+I+SDWK Range flex
1	1	0.41	0.25	0.11	0.07	(-0.06 to 0.07)	(0.02 to 0.16)
2	23	-0.04	-0.14	-0.01	-0.04	(-0.03 to 0.03)	(-0.11 to 0.11)
3	63	0.00	0.04	0.00	0.01	(0.00 to 0.00)	(-0.10 to 0.10)
4	103	0.00	-0.01	0.00	0.00	(-0.03 to 0.03)	(-0.09 to 0.08)
5	139	0.11	-0.20	0.03	-0.05	(-0.06 to 0.03)	(-0.10 to 0.05)

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Girder System : Analysis Output : Reactions - Girder 2 BEAM 3

Girder 2 Service Vertical Reactions - k

Supp/Node	Noncomp Dead	Super-Imposed Dead	Max Live+ Impact	Min Live+ Impact	Sidewalk Max	Sidewalk Min
Governing						
1 2	118.95	33.17	78.97	-8.60	0.00	0.00
Steel	38.22					
Concrete	80.73					

Global x concurrent LL+I rot. -0.0027 -0.0204 deg
Global y concurrent LL+I rot. 0.0380 -0.0144 deg

Max LL+I Contribution by Lane

1	2
40.71	38.25

Concurrent reactions using same governing loaded lanes as for Max LL+I

Concurrent at gdr 1 - 65.26

Concurrent at gdr 3 - 48.78

Concurrent at gdr 4 - 8.22

2 33	414.77	113.13	173.03	-16.04	0.00	0.00
Steel	136.51					
Concrete	278.26					

Global x concurrent LL+I rot. 0.0065 -0.0061 deg
Global y concurrent LL+I rot. 0.0250 -0.0261 deg

Max LL+I Contribution by Lane

1	2
102.00	71.03

Concurrent reactions using same governing loaded lanes as for Max LL+I

Concurrent at gdr 1 - 122.92

Concurrent at gdr 3 - 116.71

Concurrent at gdr 4 - 45.59

3 73	308.52	87.89	159.29	-31.33	0.00	0.00
Steel	93.93					
Concrete	214.59					

Global x concurrent LL+I rot. 0.0009 -0.0009 deg
Global y concurrent LL+I rot. 0.0234 -0.0248 deg

Max LL+I Contribution by Lane

```
        1          2
    93.25      66.05

Concurrent reactions using same governing loaded lanes
as for Max LL+I

 Concurrent at gdr  1 - 4   117.01

 Concurrent at gdr  3 - 2   107.93

 Concurrent at gdr  4 - 1    42.46

4  113    323.99     91.33    152.33    -20.37    0.00     0.00
   Steel     96.24
   Concrete 227.75

Global x concurrent LL+I rot.   0.0058   -0.0066 deg
Global y concurrent LL+I rot.   0.0186   -0.0213 deg

Max LL+I Contribution by Lane
        1          2
    89.00      63.33

Concurrent reactions using same governing loaded lanes
as for Max LL+I

 Concurrent at gdr  1 - 4   113.10

 Concurrent at gdr  3 - 2   103.84

 Concurrent at gdr  4 - 1    38.54

pier 5  147     88.88     24.23     72.81    -11.10    0.00     0.00
   Steel     26.77
   Concrete  62.12

Global x concurrent LL+I rot.  -0.0006   -0.0141 deg
Global y concurrent LL+I rot.  -0.0011   -0.0251 deg

Max LL+I Contribution by Lane
        1          2
    36.84      35.98

Concurrent reactions using same governing loaded lanes
as for Max LL+I

 Concurrent at gdr  1 - 4    45.88

 Concurrent at gdr  3 - 2    38.92

 Concurrent at gdr  4 - 1     3.78


Truck Loading

   1    2                        77.29     -6.07
   2   33                        93.05    -12.50
   3   73                        92.26    -17.08
   4  113                        91.89    -15.11
   5  147                        72.81     -7.74

Lane Loading
```

1	2	72.65	-8.39
2	33	173.03	-15.22
3	73	159.29	-29.76
4	113	152.33	-19.37
5	147	64.76	-10.74

Fatigue Truck

1	2	29.19	-4.64
2	33	35.96	-9.53
3	73	35.42	-13.12
4	113	34.82	-11.49
5	147	27.79	-5.87

Support Rotations - Degrees

About global axes used in Girder Geometry table

Supp/Node		Noncomp Dead x-axis	Noncomp Dead y-axis	Superimp Dead x-axis	Superimp Dead y-axis	LL+I+SDWK Range x-axis	LL+I+SDWK Range y-axis
1	2	0.19	0.34	0.05	0.09	(-0.06 to 0.02)	(-0.04 to 0.10)
		Concurrent live vertical reaction				29.55 -3.32	-3.32 29.55
2	33	-0.03	-0.10	-0.01	-0.03	(-0.02 to 0.02)	(-0.07 to 0.07)
		Concurrent live vertical reaction				51.43 56.72	56.72 51.43
3	73	0.00	0.03	0.00	0.01	(0.00 to 0.00)	(-0.07 to 0.07)
		Concurrent live vertical reaction				49.92 50.72	54.15 50.72
4	113	0.00	-0.01	0.00	0.00	(-0.02 to 0.02)	(-0.06 to 0.05)
		Concurrent live vertical reaction				53.13 51.76	53.13 51.76
5	147	0.10	-0.17	0.02	-0.04	(-0.04 to 0.02)	(-0.07 to 0.03)
		Concurrent live vertical reaction				36.88 -4.21	36.88 -4.21

Torsional and flexural rotations - member local axes

Supp/Node		Noncomp Dead tors	Noncomp Dead flex	Superimp Dead tors	Superimp Dead flex	LL+I+SDWK Range tors	LL+I+SDWK Range flex
1	2	0.33	0.20	0.09	0.05	(-0.04 to 0.05)	(0.01 to 0.11)
2	33	-0.03	-0.10	-0.01	-0.03	(-0.02 to 0.02)	(-0.07 to 0.07)
3	73	0.00	0.03	0.00	0.01	(0.00 to 0.00)	(-0.07 to 0.07)
4	113	0.00	-0.01	0.00	0.00	(-0.02 to 0.02)	(-0.06 to 0.05)
5	147	0.10	-0.17	0.02	-0.04	(-0.04 to 0.02)	(-0.07 to 0.03)

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Girder System : Analysis Output : Reactions - Girder 3

BENT 2

Girder 3 Service Vertical Reactions - k

Supp/Node	Noncomp Dead	Super-Imposed Dead	Max Live+ Impact	Min Live+ Impact	Sidewalk Max	Sidewalk Min
Governing						
1 3	107.15	29.51	77.10	-5.73	0.00	0.00
Steel	34.51					
Concrete	72.64					

Global x concurrent LL+I rot. -0.0131 -0.0130 deg
Global y concurrent LL+I rot. 0.0267 -0.0072 deg

Max LL+I Contribution by Lane

1	2
31.00	46.10

Concurrent reactions using same governing loaded lanes as for Max LL+I

Concurrent at gdr 1 - 10.53

Concurrent at gdr 2 - 52.08

Concurrent at gdr 4 - 34.28

2 43	341.58	91.64	135.22	-7.75	0.00	0.00
Steel	113.24					
Concrete	228.34					

Global x concurrent LL+I rot. 0.0039 -0.0037 deg
Global y concurrent LL+I rot. 0.0153 -0.0157 deg

Max LL+I Contribution by Lane

1	2
64.18	71.04

Concurrent reactions using same governing loaded lanes as for Max LL+I

Concurrent at gdr 1 - 39.41

Concurrent at gdr 2 - 115.15

Concurrent at gdr 4 - 146.26

3 83	269.35	75.42	128.73	-15.14	0.00	0.00
Steel	82.60					
Concrete	186.75					

Global x concurrent LL+I rot. 0.0006 -0.0006 deg
Global y concurrent LL+I rot. 0.0152 -0.0156 deg

Max LL+I Contribution by Lane

```
        1          2
     60.30      68.43

    Concurrent reactions using same governing loaded lanes
    as for Max LL+I

     Concurrent at gdr  1 -      36.77

     Concurrent at gdr  2 -     107.58

     Concurrent at gdr  4 -     133.72

  4  123    275.24     76.93    124.66     -9.90    0.00     0.00
     Steel     82.53
     Concrete 192.71

 Global x concurrent LL+I rot.   0.0040   -0.0043 deg
 Global y concurrent LL+I rot.   0.0128   -0.0141 deg

    Max LL+I Contribution by Lane
        1          2
     58.22      66.44

    Concurrent reactions using same governing loaded lanes
    as for Max LL+I

     Concurrent at gdr  1 - 4    34.84

     Concurrent at gdr  2 - 3   103.10

     Concurrent at gdr  4 - 1   125.23

  5  155     76.20     22.09     72.77     -7.00    0.00     0.00
     Steel     23.31
     Concrete  52.89

 Global x concurrent LL+I rot.  -0.0064   -0.0105 deg
 Global y concurrent LL+I rot.  -0.0114   -0.0186 deg

    Max LL+I Contribution by Lane
        1          2
     29.06      43.71

    Concurrent reactions using same governing loaded lanes
    as for Max LL+I

     Concurrent at gdr  1 - 4    11.33

     Concurrent at gdr  2 - 3    47.35

     Concurrent at gdr  4 - 1    32.20


Truck Loading

   1    3                        77.10     -4.11
   2   43                        92.30     -5.40
   3   83                        91.52     -7.12
   4  123                        91.38     -6.67
   5  155                        72.77     -5.03

Lane Loading
```

1	3	68.23	-5.65
2	43	135.22	-6.62
3	83	128.73	-13.10
4	123	124.66	-8.63
5	155	60.53	-6.83

Fatigue Truck

1	3	33.85	-3.13
2	43	41.17	-4.09
3	83	40.60	-5.45
4	123	40.12	-5.09
5	155	31.94	-3.84

Support Rotations - Degrees

About global axes used in Girder Geometry table

Supp/Node		Noncomp Dead x-axis	Noncomp Dead y-axis	Superimp Dead x-axis	Superimp Dead y-axis	LL+I+SDWK Range x-axis	LL+I+SDWK Range y-axis
1	3	0.15	0.26	0.04	0.07	(-0.04 to 0.01)	(-0.02 to 0.07)
		Concurrent live vertical reaction				29.78 -2.31	-2.31 29.78
2	43	-0.02	-0.07	0.00	-0.02	(-0.01 to 0.01)	(-0.04 to 0.04)
		Concurrent live vertical reaction				40.39 36.80	36.80 40.39
3	83	0.00	0.02	0.00	0.00	(0.00 to 0.00)	(-0.04 to 0.04)
		Concurrent live vertical reaction				41.24 42.74	41.24 42.74
4	123	0.00	-0.01	0.00	0.00	(-0.01 to 0.01)	(-0.04 to 0.04)
		Concurrent live vertical reaction				42.64 39.78	42.64 39.78
5	155	0.08	-0.15	0.02	-0.03	(-0.03 to 0.01)	(-0.05 to 0.02)
		Concurrent live vertical reaction				34.38 -2.82	34.38 -2.82

Torsional and flexural rotations - member local axes

Supp/Node		Noncomp Dead tors	Noncomp Dead flex	Superimp Dead tors	Superimp Dead flex	LL+I+SDWK Range tors	LL+I+SDWK Range flex
1	3	0.15	0.26	0.04	0.07	(-0.04 to 0.01)	(-0.02 to 0.07)
2	43	-0.03	-0.06	-0.01	-0.02	(-0.01 to 0.01)	(-0.03 to 0.05)
3	83	0.00	0.02	0.00	0.00	(0.00 to 0.00)	(-0.05 to 0.04)
4	123	0.00	-0.01	0.00	0.00	(-0.02 to 0.01)	(-0.05 to 0.02)
5	155	0.08	-0.15	0.02	-0.03	(-0.03 to 0.01)	(-0.05 to 0.02)

I-75 / I-575 NORTHWEST CORRIDOR - BRIDGE 2B UNIT1
Girder System : Analysis Output : Reactions - Girder 4

BEAM 1

Girder 4 Service Vertical Reactions - k

Supp/Node	Noncomp Dead	Super-Imposed Dead	Max Live+ Impact	Min Live+ Impact	Sidewalk Max	Sidewalk Min
Governing						
1 4	73.04	20.46	60.88	-21.45	0.00	0.00
Steel	22.90					
Concrete	50.14					

Global x concurrent LL+I rot. -0.0091 -0.0147 deg
Global y concurrent LL+I rot. 0.0271 -0.0014 deg

Max LL+I Contribution by Lane

1	2
6.47	54.42

Concurrent reactions using same governing loaded lanes as for Max LL+I

Concurrent at gdr 1 - 27.61

Concurrent at gdr 2 - 46.20

Concurrent at gdr 3 - 57.15

2 44	365.64	98.69	168.45	-32.91	0.00	0.00
Steel	120.66					
Concrete	244.98					

Global x concurrent LL+I rot. 0.0042 -0.0036 deg
Global y concurrent LL+I rot. 0.0157 -0.0158 deg

Max LL+I Contribution by Lane

1	2
31.74	136.71

Concurrent reactions using same governing loaded lanes as for Max LL+I

Concurrent at gdr 1 - 36.94

Concurrent at gdr 2 - 105.78

Concurrent at gdr 3 - 118.32

3 84	292.04	83.19	155.31	-38.86	0.00	0.00
Steel	88.51					
Concrete	203.53					

Global x concurrent LL+I rot. 0.0009 -0.0004 deg
Global y concurrent LL+I rot. 0.0163 -0.0165 deg

Max LL+I Contribution by Lane

```
        1          2
    28.39     126.92

    Concurrent reactions using same governing loaded lanes
    as for Max LL+I

     Concurrent at gdr  1 - 4    34.70

     Concurrent at gdr  2 - 3    99.23

     Concurrent at gdr  3 - 2   112.71

  4  124    285.70     81.26    145.92    -30.16    0.00     0.00
     Steel     84.87
     Concrete 200.83

Global x concurrent LL+I rot.   0.0046   -0.0046 deg
Global y concurrent LL+I rot.   0.0141   -0.0155 deg

    Max LL+I Contribution by Lane
        1          2
    26.36     119.55

    Concurrent reactions using same governing loaded lanes
    as for Max LL+I

     Concurrent at gdr  1 - 4    33.45

     Concurrent at gdr  2 - 3    94.96

     Concurrent at gdr  3 - 2   108.87

  5  156     66.08     19.02     58.93    -17.18    0.00     0.00
     Steel     19.45
     Concrete  46.63

Global x concurrent LL+I rot.  -0.0152   -0.0119 deg
Global y concurrent LL+I rot.  -0.0269   -0.0212 deg

    Max LL+I Contribution by Lane
        1          2
     6.85      52.08

    Concurrent reactions using same governing loaded lanes
    as for Max LL+I

     Concurrent at gdr  1 - 4    17.23

     Concurrent at gdr  2 - 3    21.30

     Concurrent at gdr  3 - 2    39.81


Truck Loading

    1    4                      60.33     -3.49
    2   44                      78.34    -10.05
    3   84                      77.19    -10.18
    4  124                      77.26    -10.33
    5  156                      58.93     -4.69

Lane Loading
```

1	4	60.41	-4.22
2	44	168.45	-12.45
3	84	155.31	-20.19
4	124	145.92	-13.34
5	156	55.53	-6.01

Fatigue Truck

1	4	40.09	-2.63
2	44	48.25	-7.60
3	84	48.03	-7.76
4	124	47.94	-7.94
5	156	38.82	-3.59

Support Rotations - Degrees

About global axes used in Girder Geometry table

Supp/Node		Noncomp Dead x-axis	Noncomp Dead y-axis	Superimp Dead x-axis	Superimp Dead y-axis	LL+I+SDWK Range x-axis		LL+I+SDWK Range y-axis	
1	4	0.10	0.19	0.03	0.05	(-0.04 to	0.01)	(-0.02 to	0.07)
		Concurrent live vertical reaction				32.84	-0.86	-0.86	32.84
2	44	-0.01	-0.03	0.00	-0.01	(-0.01 to	0.01)	(-0.04 to	0.04)
		Concurrent live vertical reaction				65.38	68.44	68.44	65.33
3	84	0.00	0.00	0.00	0.00	(0.00 to	0.00)	(-0.05 to	0.05)
		Concurrent live vertical reaction				62.61	63.57	63.01	63.67
4	124	0.00	-0.01	0.00	0.00	(-0.01 to	0.01)	(-0.04 to	0.04)
		Concurrent live vertical reaction				64.02	60.47	64.02	60.47
5	156	0.07	-0.12	0.02	-0.03	(-0.03 to	0.01)	(-0.06 to	0.02)
		Concurrent live vertical reaction				38.26	-2.55	38.26	-2.55

Torsional and flexural rotations - member local axes

Supp/Node		Noncomp Dead tors	Noncomp Dead flex	Superimp Dead tors	Superimp Dead flex	LL+I+SDWK Range tors		LL+I+SDWK Range flex	
1	4	0.18	0.11	0.05	0.03	(-0.03 to	0.03)	(0.02 to	0.07)
2	44	-0.02	-0.03	0.00	-0.01	(-0.01 to	0.01)	(-0.03 to	0.05)
3	84	0.00	0.00	0.00	0.00	(0.00 to	0.00)	(-0.05 to	0.04)
4	124	0.00	-0.01	0.00	0.00	(-0.02 to	0.01)	(-0.05 to	0.02)
5	156	0.07	-0.12	0.02	-0.03	(-0.03 to	0.01)	(-0.06 to	0.02)

I-75 / I-575 NORTHWEST CORRIDOR - BRIDGE 2B UNIT1
Girder 1 : Rating Output : Dimensions

Girder 1 Dimensions

Tenth Point	Loc	-Top Flange- tfw	tft	weld	----Web---- wd	wt	weld	-Bot Flange- bfw	bft	Area
0	0.00	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
1	17.96	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
2	35.92	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
SpL	39.58	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
SpR	39.58	18.00	1.375	5/16	78.00	0.812	5/16	22.00	1.750	126.62
3	53.87	18.00	1.375	5/16	78.00	0.812	5/16	22.00	1.750	126.62
4	71.83	18.00	1.375	5/16	78.00	0.812	5/16	22.00	1.750	126.62
5	89.79	18.00	1.375	5/16	78.00	0.812	5/16	22.00	1.750	126.62
6	107.75	18.00	1.375	5/16	78.00	0.812	5/16	22.00	1.750	126.62
7	125.71	18.00	1.375	5/16	78.00	0.812	5/16	22.00	1.750	126.62
SpL	139.58	18.00	1.375	5/16	78.00	0.812	5/16	22.00	1.750	126.62
SpR	139.58	18.00	1.750	5/16	78.00	0.812	5/16	22.00	1.750	133.38
8	143.66	18.00	1.750	5/16	78.00	0.812	5/16	22.00	1.750	133.38
SpL	159.58	18.00	1.750	5/16	78.00	0.812	5/16	22.00	1.750	133.38
SpR	159.58	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
9	161.62	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
10	179.58	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
11	198.39	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
SpL	199.58	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
SpR	199.58	18.00	1.750	5/16	78.00	0.812	5/16	22.00	1.750	133.38
12	217.21	18.00	1.750	5/16	78.00	0.812	5/16	22.00	1.750	133.38
SpL	219.58	18.00	1.750	5/16	78.00	0.812	5/16	22.00	1.750	133.38
SpR	219.58	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
13	236.02	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
14	254.83	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
15	273.64	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
16	292.45	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
17	311.27	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	327.70	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	327.70	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
18	330.08	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	347.70	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	347.70	18.00	2.000	5/16	78.00	0.812	5/16	22.00	1.750	137.88
19	348.89	18.00	2.000	5/16	78.00	0.812	5/16	22.00	1.750	137.88
20	367.70	18.00	2.000	5/16	78.00	0.812	5/16	22.00	1.750	137.88
21	385.31	18.00	2.000	5/16	78.00	0.812	5/16	22.00	1.750	137.88
SpL	387.70	18.00	2.000	5/16	78.00	0.812	5/16	22.00	1.750	137.88
SpR	387.70	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
22	402.91	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	407.70	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	407.70	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
23	420.52	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
24	438.12	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
25	455.73	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
26	473.33	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
27	490.94	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpL	503.76	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpR	503.76	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
28	508.54	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	523.76	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	523.76	18.00	1.875	5/16	78.00	0.812	5/16	22.00	1.750	135.62
29	526.15	18.00	1.875	5/16	78.00	0.812	5/16	22.00	1.750	135.62
30	543.76	18.00	1.875	5/16	78.00	0.812	5/16	22.00	1.750	135.62
31	557.69	18.00	1.875	5/16	78.00	0.812	5/16	22.00	1.750	135.62
SpL	563.76	18.00	1.875	5/16	78.00	0.812	5/16	22.00	1.750	135.62
SpR	563.76	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
32	571.62	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	578.76	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	578.76	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
33	585.56	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
34	599.49	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
35	613.43	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
36	627.36	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
37	641.29	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpL	653.76	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38

SpR	653.76	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
38	655.23	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
39	669.16	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
40	683.10	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38

Theoretical Flange Splice Locations

Tenth Pt Range	Location	
2 - 3	44.90	
7 - 8	a	
8 - 9	a	
11 - 12	a	
12 - 13	a	
18 - 19	a	
21 - 22	a	
22 - 23	b	Reinf Fatigue
27 - 28	b	Reinf Fatigue
28 - 29	a	
31 - 32	a	
32 - 33	b	Reinf Fatigue

a. Splice not required in this range.
b. Constraint violation at a straddling tenth point or existing splice prevents determination of theoretical cutoff location in this range.

Bearing Stiffeners

Location	Width	Thickness
0.00	7.00	1.000
179.58	7.00	1.000
367.70	7.00	1.000
543.76	7.00	1.000
683.10	7.00	1.000

I-75 / I-575 NORTHWEST CORRIDOR - BRIDGE 2B UNIT1
Girder 2 : Rating Output : Dimensions

Girder 2 Dimensions

Tenth Point	Loc	-Top Flange- tfw	tft	weld	----Web---- wd	wt	weld	-Bot Flange- bfw	bft	Area
0	0.00	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
1	17.71	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
2	35.41	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
SpL	38.98	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
SpR	38.98	18.00	1.375	5/16	78.00	0.812	5/16	22.00	1.750	126.62
3	53.12	18.00	1.375	5/16	78.00	0.812	5/16	22.00	1.750	126.62
4	70.82	18.00	1.375	5/16	78.00	0.812	5/16	22.00	1.750	126.62
5	88.53	18.00	1.375	5/16	78.00	0.812	5/16	22.00	1.750	126.62
6	106.24	18.00	1.375	5/16	78.00	0.812	5/16	22.00	1.750	126.62
7	123.94	18.00	1.375	5/16	78.00	0.812	5/16	22.00	1.750	126.62
SpL	137.56	18.00	1.375	5/16	78.00	0.812	5/16	22.00	1.750	126.62
SpR	137.56	18.00	1.750	5/16	78.00	0.812	5/16	22.00	1.750	133.38
8	141.65	18.00	1.750	5/16	78.00	0.812	5/16	22.00	1.750	133.38
SpL	157.31	18.00	1.750	5/16	78.00	0.812	5/16	22.00	1.750	133.38
SpR	157.31	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
9	159.35	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
10	177.06	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
11	195.61	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
SpL	196.81	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
SpR	196.81	18.00	1.750	5/16	78.00	0.812	5/16	22.00	1.750	133.38
12	214.16	18.00	1.750	5/16	78.00	0.812	5/16	22.00	1.750	133.38
SpL	216.56	18.00	1.750	5/16	78.00	0.812	5/16	22.00	1.750	133.38
SpR	216.56	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
13	232.71	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
14	251.26	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
15	269.81	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
16	288.36	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
17	306.91	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	323.06	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	323.06	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
18	325.46	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	342.81	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	342.81	18.00	2.000	5/16	78.00	0.812	5/16	22.00	1.750	137.88
19	344.01	18.00	2.000	5/16	78.00	0.812	5/16	22.00	1.750	137.88
20	362.56	18.00	2.000	5/16	78.00	0.812	5/16	22.00	1.750	137.88
21	379.92	18.00	2.000	5/16	78.00	0.812	5/16	22.00	1.750	137.88
SpL	382.31	18.00	2.000	5/16	78.00	0.812	5/16	22.00	1.750	137.88
SpR	382.31	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
22	397.28	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	402.06	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	402.06	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
23	414.64	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
24	432.00	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
25	449.36	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
26	466.72	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
27	484.08	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpL	496.66	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpR	496.66	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
28	501.44	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	516.41	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	516.41	18.00	1.875	5/16	78.00	0.812	5/16	22.00	1.750	135.62
29	518.80	18.00	1.875	5/16	78.00	0.812	5/16	22.00	1.750	135.62
30	536.16	18.00	1.875	5/16	78.00	0.812	5/16	22.00	1.750	135.62
31	549.90	18.00	1.875	5/16	78.00	0.812	5/16	22.00	1.750	135.62
SpL	555.91	18.00	1.875	5/16	78.00	0.812	5/16	22.00	1.750	135.62
SpR	555.91	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
32	563.64	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	570.66	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	570.66	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
33	577.37	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
34	591.11	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
35	604.85	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
36	618.59	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
37	632.32	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpL	644.58	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38

SpR	644.58	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
38	646.06	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
39	659.80	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
40	673.54	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38

Theoretical Flange Splice Locations

Tenth Pt Range	Location
2 - 3	a
7 - 8	a
8 - 9	a
11 - 12	a
12 - 13	a
18 - 19	a
21 - 22	a
22 - 23	a
27 - 28	a
28 - 29	a
31 - 32	a
32 - 33	a

a. Splice not required in this range.

Bearing Stiffeners

Location	Width	Thickness
0.00	7.00	1.000
177.06	7.00	1.000
362.56	7.00	1.000
536.16	7.00	1.000
673.54	7.00	1.000

I-75 / I-575 NORTHWEST CORRIDOR - BRIDGE 2B UNIT1
Girder 3 : Rating Output : Dimensions

Girder 3 Dimensions

Tenth Point	Loc	-Top Flange- tfw	tft	weld	----Web---- wd	wt	weld	-Bot Flange- bfw	bft	Area
0	0.00	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
1	17.45	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
2	34.91	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
SpL	38.54	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
SpR	38.54	18.00	1.375	5/16	78.00	0.812	5/16	22.00	1.750	126.62
3	52.36	18.00	1.375	5/16	78.00	0.812	5/16	22.00	1.750	126.62
4	69.81	18.00	1.375	5/16	78.00	0.812	5/16	22.00	1.750	126.62
5	87.27	18.00	1.375	5/16	78.00	0.812	5/16	22.00	1.750	126.62
6	104.72	18.00	1.375	5/16	78.00	0.812	5/16	22.00	1.750	126.62
7	122.18	18.00	1.375	5/16	78.00	0.812	5/16	22.00	1.750	126.62
SpL	135.70	18.00	1.375	5/16	78.00	0.812	5/16	22.00	1.750	126.62
SpR	135.70	18.00	1.750	5/16	78.00	0.812	5/16	22.00	1.750	133.38
8	139.63	18.00	1.750	5/16	78.00	0.812	5/16	22.00	1.750	133.38
SpL	155.12	18.00	1.750	5/16	78.00	0.812	5/16	22.00	1.750	133.38
SpR	155.12	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
9	157.08	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
10	174.54	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
11	192.82	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
SpL	193.95	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
SpR	193.95	18.00	1.750	5/16	78.00	0.812	5/16	22.00	1.750	133.38
12	211.11	18.00	1.750	5/16	78.00	0.812	5/16	22.00	1.750	133.38
SpL	213.37	18.00	1.750	5/16	78.00	0.812	5/16	22.00	1.750	133.38
SpR	213.37	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
13	229.40	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
14	247.69	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
15	265.98	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
16	284.26	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
17	302.55	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	318.58	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	318.58	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
18	320.84	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	338.00	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	338.00	18.00	2.000	5/16	78.00	0.812	5/16	22.00	1.750	137.88
19	339.13	18.00	2.000	5/16	78.00	0.812	5/16	22.00	1.750	137.88
20	357.42	18.00	2.000	5/16	78.00	0.812	5/16	22.00	1.750	137.88
21	374.53	18.00	2.000	5/16	78.00	0.812	5/16	22.00	1.750	137.88
SpL	376.83	18.00	2.000	5/16	78.00	0.812	5/16	22.00	1.750	137.88
SpR	376.83	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
22	391.65	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	396.25	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	396.25	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
23	408.76	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
24	425.88	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
25	442.99	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
26	460.11	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
27	477.22	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpL	489.73	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpR	489.73	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
28	494.33	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	509.15	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	509.15	18.00	1.875	5/16	78.00	0.812	5/16	22.00	1.750	135.62
29	511.45	18.00	1.875	5/16	78.00	0.812	5/16	22.00	1.750	135.62
30	528.56	18.00	1.875	5/16	78.00	0.812	5/16	22.00	1.750	135.62
31	542.11	18.00	1.875	5/16	78.00	0.812	5/16	22.00	1.750	135.62
SpL	547.98	18.00	1.875	5/16	78.00	0.812	5/16	22.00	1.750	135.62
SpR	547.98	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
32	555.65	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	562.56	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	562.56	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
33	569.19	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
34	582.73	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
35	596.27	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
36	609.81	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
37	623.36	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpL	635.48	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38

SpR	635.48	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
38	636.90	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
39	650.44	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
40	663.98	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38

Theoretical Flange Splice Locations

Tenth Pt Range	Location
2 - 3	a
7 - 8	a
8 - 9	a
11 - 12	a
12 - 13	a
18 - 19	a
21 - 22	a
22 - 23	a
27 - 28	a
28 - 29	a
31 - 32	a
32 - 33	a

a. Splice not required in this range.

Bearing Stiffeners

Location	Width	Thickness
0.00	7.00	1.000
174.54	7.00	1.000
357.42	7.00	1.000
528.56	7.00	1.000
663.98	7.00	1.000

I-75 / I-575 NORTHWEST CORRIDOR - BRIDGE 2B UNIT1
Girder 4 : Rating Output : Dimensions

Girder 4 Dimensions

Tenth Point	Loc	-Top Flange- tfw	tft	weld	----Web---- wd	wt	weld	-Bot Flange- bfw	bft	Area
0	0.00	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
1	17.20	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
2	34.40	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
SpL	37.93	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
SpR	37.93	18.00	1.375	5/16	78.00	0.812	5/16	22.00	1.750	126.62
3	51.60	18.00	1.375	5/16	78.00	0.812	5/16	22.00	1.750	126.62
4	68.81	18.00	1.375	5/16	78.00	0.812	5/16	22.00	1.750	126.62
5	86.01	18.00	1.375	5/16	78.00	0.812	5/16	22.00	1.750	126.62
6	103.21	18.00	1.375	5/16	78.00	0.812	5/16	22.00	1.750	126.62
7	120.41	18.00	1.375	5/16	78.00	0.812	5/16	22.00	1.750	126.62
SpL	133.68	18.00	1.375	5/16	78.00	0.812	5/16	22.00	1.750	126.62
SpR	133.68	18.00	1.750	5/16	78.00	0.812	5/16	22.00	1.750	133.38
8	137.61	18.00	1.750	5/16	78.00	0.812	5/16	22.00	1.750	133.38
SpL	152.85	18.00	1.750	5/16	78.00	0.812	5/16	22.00	1.750	133.38
SpR	152.85	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
9	154.81	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
10	172.01	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
11	190.04	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
SpL	191.18	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
SpR	191.18	18.00	1.750	5/16	78.00	0.812	5/16	22.00	1.750	133.38
12	208.07	18.00	1.750	5/16	78.00	0.812	5/16	22.00	1.750	133.38
SpL	210.35	18.00	1.750	5/16	78.00	0.812	5/16	22.00	1.750	133.38
SpR	210.35	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
13	226.09	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
14	244.12	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
15	262.14	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
16	280.17	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
17	298.20	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	313.94	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	313.94	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
18	316.22	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	333.11	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	333.11	18.00	2.000	5/16	78.00	0.812	5/16	22.00	1.750	137.88
19	334.25	18.00	2.000	5/16	78.00	0.812	5/16	22.00	1.750	137.88
20	352.27	18.00	2.000	5/16	78.00	0.812	5/16	22.00	1.750	137.88
21	369.14	18.00	2.000	5/16	78.00	0.812	5/16	22.00	1.750	137.88
SpL	371.44	18.00	2.000	5/16	78.00	0.812	5/16	22.00	1.750	137.88
SpR	371.44	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
22	386.01	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	390.61	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	390.61	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
23	402.88	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
24	419.75	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
25	436.62	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
26	453.49	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
27	470.36	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpL	482.64	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpR	482.64	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
28	487.23	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	501.80	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	501.80	18.00	1.875	5/16	78.00	0.812	5/16	22.00	1.750	135.62
29	504.10	18.00	1.875	5/16	78.00	0.812	5/16	22.00	1.750	135.62
30	520.97	18.00	1.875	5/16	78.00	0.812	5/16	22.00	1.750	135.62
31	534.31	18.00	1.875	5/16	78.00	0.812	5/16	22.00	1.750	135.62
SpL	540.14	18.00	1.875	5/16	78.00	0.812	5/16	22.00	1.750	135.62
SpR	540.14	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
32	547.66	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	554.47	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	554.47	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
33	561.00	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
34	574.35	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
35	587.70	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
36	601.04	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
37	614.39	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpL	626.30	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38

SpR	626.30	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
38	627.73	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
39	641.08	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
40	654.42	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38

Theoretical Flange Splice Locations

Tenth Pt Range	Location
2 - 3	a
7 - 8	a
8 - 9	a
11 - 12	a
12 - 13	a
18 - 19	a
21 - 22	a
22 - 23	a
27 - 28	a
28 - 29	a
31 - 32	a
32 - 33	a

a. Splice not required in this range.

Bearing Stiffeners

Location	Width	Thickness
0.00	7.00	1.000
172.01	7.00	1.000
352.27	7.00	1.000
520.97	7.00	1.000
654.42	7.00	1.000

BRIDGE 2B-UNIT 2
Girder System : Analysis Output : Reactions - Girder 1 = BEAM 4

Girder 1 Service Vertical Reactions - k

BRIDGE 2B

SPAN 5-9

	Supp/Node	Noncomp Dead	Super-Imposed Dead	Max Live+ Impact	Min Live+ Impact	Sidewalk Max	Sidewalk Min
	Governing						
5	1	102.11	29.72	84.96	-20.39	0.00	0.00
	Steel	29.13					
	Concrete	72.98					

Global x concurrent LL+I rot. -0.0110 -0.0206 deg
Global y concurrent LL+I rot. 0.0427 -0.0201 deg

Max LL+I Contribution by Lane

1	2
66.74	18.22

Concurrent reactions using same governing loaded lanes as for Max LL+I

Concurrent at gdr 2 - 3 51.02

Concurrent at gdr 3 - 2 39.52

Concurrent at gdr 4 - 1 6.87

6	19	277.36	79.78	136.20	-18.53	0.00	0.00
	Steel	82.75					
	Concrete	194.60					

Global x concurrent LL+I rot. 0.0072 -0.0070 deg
Global y concurrent LL+I rot. 0.0345 -0.0318 deg

Max LL+I Contribution by Lane

1	2
111.00	25.20

Concurrent reactions using same governing loaded lanes as for Max LL+I

Concurrent at gdr 2 - 3 151.57

Concurrent at gdr 3 - 2 104.78

Concurrent at gdr 4 - 1 41.43

7	55	263.89	75.47	139.59	-25.92	0.00	0.00
	Steel	81.60					
	Concrete	182.29					

Global x concurrent LL+I rot. 0.0024 -0.0016 deg
Global y concurrent LL+I rot. 0.0349 -0.0351 deg

Max LL+I Contribution by Lane

5-

```
      1          2
  113.55     26.04

Concurrent reactions using same governing loaded lanes
as for Max LL+I

 Concurrent at gdr  2 - 3   158.39

 Concurrent at gdr  3 - 2   108.87

 Concurrent at gdr  4 - 1    46.94

8  4  95    272.46     78.73    150.18    -36.06    0.00     0.00
   Steel     81.84
   Concrete 190.62

Global x concurrent LL+I rot.   0.0111   -0.0105 deg
Global y concurrent LL+I rot.   0.0318   -0.0320 deg

Max LL+I Contribution by Lane
      1          2
  121.68     28.50

Concurrent reactions using same governing loaded lanes
as for Max LL+I

 Concurrent at gdr  2 - 3   157.35

 Concurrent at gdr  3 - 2   110.63

 Concurrent at gdr  4 - 1    53.25

9  5  137    384.79    107.44    179.42    -29.45    0.00     0.00
   Steel    119.21
   Concrete 265.58

Global x concurrent LL+I rot.   0.0113   -0.0109 deg
Global y concurrent LL+I rot.   0.0315   -0.0303 deg

Max LL+I Contribution by Lane
      1          2
  143.04     36.38

Concurrent reactions using same governing loaded lanes
as for Max LL+I

 Concurrent at gdr  2 - 3   147.25

 Concurrent at gdr  3 - 2   110.54

 Concurrent at gdr  4 - 1    42.29

10 6  179    122.86     35.53     86.15    -19.00    0.00     0.00
   Steel     36.85
   Concrete  86.02

Global x concurrent LL+I rot.   0.0085   -0.0238 deg
Global y concurrent LL+I rot.   0.0182   -0.0506 deg

Max LL+I Contribution by Lane
      1          2
```

66.56 19.60

Concurrent reactions using same governing loaded lanes
as for Max LL+I

Concurrent at gdr 2 - 3 63.92

Concurrent at gdr 3 - 2 51.71

Concurrent at gdr 4 - 1 18.76

Truck Loading

1	1	83.74	-14.04
2	19	86.65	-9.34
3	55	86.22	-9.19
4	95	89.80	-13.14
5	137	81.41	-12.08
6	179	76.97	-10.43

Lane Loading

1	1	79.78	-19.36
2	19	136.20	-12.58
3	55	139.59	-20.11
4	95	150.18	-23.89
5	137	179.42	-16.02
6	179	86.15	-16.01

Fatigue Truck

1	1	48.88	-10.70
2	19	54.24	-7.12
3	55	54.61	-7.03
4	95	55.57	-9.98
5	137	48.22	-9.20
6	179	45.66	-7.98

Support Rotations - Degrees

About global axes used in Girder Geometry table

Supp/Node		Noncomp Dead x-axis	Noncomp Dead y-axis	Superimp Dead x-axis	Superimp Dead y-axis	LL+I+SDWK Range x-axis		LL+I+SDWK Range y-axis	
1	1	0.13	0.28	0.03	0.06	(-0.06 to	0.03)	(-0.06 to	0.12)
		Concurrent live vertical reaction				53.73	-7.46	-7.46	53.73
2	19	-0.01	-0.03	0.00	-0.01	(-0.02 to	0.02)	(-0.09 to	0.10)
		Concurrent live vertical reaction				50.23	51.74	51.74	50.23
3	55	0.00	0.00	0.00	0.00	(0.00 to	0.01)	(-0.10 to	0.10)
		Concurrent live vertical reaction				44.19	51.77	44.19	51.77
4	95	-0.01	0.01	0.00	0.00	(-0.03 to	0.03)	(-0.09 to	0.09)
		Concurrent live vertical reaction				60.18	44.88	60.18	44.88
5	137	-0.03	0.08	-0.01	0.02	(-0.03 to	0.03)	(-0.09 to	0.09)
		Concurrent live vertical reaction				58.84	64.98	58.84	64.98
6	179	0.18	-0.39	0.05	-0.10	(-0.07 to	0.02)	(-0.14 to	0.05)
		Concurrent live vertical reaction				51.08	-5.85	51.08	-5.85

Torsional and flexural rotations - member local axes

Supp/Node		Noncomp Dead tors	Noncomp Dead flex	Superimp Dead tors	Superimp Dead flex	LL+I+SDWK Range tors		LL+I+SDWK Range flex	

1	1	0.23	0.20	0.05	0.05	(-0.04 to 0.05)	(0.00 to 0.14)
2	19	-0.01	-0.03	0.00	-0.01	(-0.02 to 0.02)	(-0.09 to 0.10)
3	55	0.00	0.00	0.00	0.00	(0.00 to 0.01)	(-0.10 to 0.10)
4	95	-0.01	0.01	0.00	0.00	(-0.03 to 0.03)	(-0.09 to 0.09)
5	137	-0.03	0.08	-0.01	0.02	(-0.03 to 0.03)	(-0.09 to 0.09)
6	179	0.18	-0.39	0.05	-0.10	(-0.07 to 0.02)	(-0.14 to 0.05)

BRIDGE 2B-UNIT 2
Girder System : Analysis Output : Reactions - Girder 2 BEAM 3

Girder 2 Service Vertical Reactions - k

Supp/Node	Noncomp Dead	Super-Imposed Dead	Max Live+ Impact	Min Live+ Impact	Sidewalk Max	Sidewalk Min
Governing						
5 ~~1~~ 2	90.67	26.97	79.37	-10.96	0.00	0.00
Steel	27.08					
Concrete	63.59					

Global x concurrent LL+I rot. -0.0128 -0.0139 deg
Global y concurrent LL+I rot. 0.0284 -0.0132 deg

Max LL+I Contribution by Lane

1	2
40.20	39.16

Concurrent reactions using same governing loaded lanes as for Max LL+I

Concurrent at gdr 1 - 4 49.24

Concurrent at gdr 3 - 2 42.29

Concurrent at gdr 4 - 1 0.08

6 ~~2~~ 27	339.54	97.23	159.08	-20.20	0.00	0.00
Steel	100.56					
Concrete	238.98					

Global x concurrent LL+I rot. 0.0046 -0.0049 deg
Global y concurrent LL+I rot. 0.0231 -0.0213 deg

Max LL+I Contribution by Lane

1	2
93.09	65.99

Concurrent reactions using same governing loaded lanes as for Max LL+I

Concurrent at gdr 1 - 4 112.78

Concurrent at gdr 3 - 2 108.17

Concurrent at gdr 4 - 1 39.77

7 ~~3~~ 65	322.90	91.23	165.55	-31.76	0.00	0.00
Steel	99.26					
Concrete	223.64					

Global x concurrent LL+I rot. 0.0014 -0.0013 deg
Global y concurrent LL+I rot. 0.0235 -0.0236 deg

Max LL+I Contribution by Lane

```
      1          2
   97.01      68.53

Concurrent reactions using same governing loaded lanes
as for Max LL+I

 Concurrent at gdr  1 - 4   115.57

 Concurrent at gdr  3 - 2   112.27

 Concurrent at gdr  4 - 1    43.91

8   4  105    333.37     95.08     166.02    -28.70     0.00      0.00
       Steel      99.70
       Concrete 233.67

Global x concurrent LL+I rot.   0.0077   -0.0075 deg
Global y concurrent LL+I rot.   0.0224   -0.0222 deg

Max LL+I Contribution by Lane
      1          2
   96.98      69.03

Concurrent reactions using same governing loaded lanes
as for Max LL+I

 Concurrent at gdr  1 - 4   126.17

 Concurrent at gdr  3 - 2   115.06

 Concurrent at gdr  4 - 1    50.94

9   5  148    372.89    105.04     160.37    -11.23     0.00      0.00
       Steel     114.37
       Concrete 258.52

Global x concurrent LL+I rot.   0.0079   -0.0078 deg
Global y concurrent LL+I rot.   0.0221   -0.0219 deg

Max LL+I Contribution by Lane
      1          2
   90.59      69.79

Concurrent reactions using same governing loaded lanes
as for Max LL+I

 Concurrent at gdr  1 - 4   153.91

 Concurrent at gdr  3 - 2   116.85

 Concurrent at gdr  4 - 1    41.57

10  6  189    112.76     31.99      74.70     -9.17     0.00      0.00
       Steel      34.63
       Concrete   78.13

Global x concurrent LL+I rot.  -0.0031   -0.0165 deg
Global y concurrent LL+I rot.  -0.0066   -0.0352 deg

Max LL+I Contribution by Lane
      1          2
```

40.60 34.10

Concurrent reactions using same governing loaded lanes
as for Max LL+I

Concurrent at gdr 1 - 4 59.79

Concurrent at gdr 3 - 2 54.17

Concurrent at gdr 4 - 1 7.83

Truck Loading

1	2	79.37	-7.58
2	27	92.61	-14.25
3	65	92.93	-13.93
4	105	92.39	-13.54
5	148	83.58	-7.97
6	189	73.30	-5.91

Lane Loading

1	2	68.53	-10.63
2	27	159.08	-19.20
3	65	165.55	-30.26
4	105	166.02	-27.32
5	148	160.37	-10.75
6	189	72.44	-9.01

Fatigue Truck

1	2	28.65	-5.78
2	27	35.63	-10.87
3	65	35.71	-10.60
4	105	35.96	-10.28
5	148	35.35	-6.05
6	189	29.26	-4.53

Support Rotations - Degrees

About global axes used in Girder Geometry table

Supp/Node		Noncomp Dead x-axis	Noncomp Dead y-axis	Superimp Dead x-axis	Superimp Dead y-axis	LL+I+SDWK Range x-axis		LL+I+SDWK Range y-axis	
1	2	0.11	0.24	0.03	0.05	(-0.04 to 0.02)		(-0.04 to 0.08)	
		Concurrent live vertical reaction				36.94	-4.14	-4.14	36.94
2	27	-0.01	-0.02	0.00	0.00	(-0.01 to 0.01)		(-0.06 to 0.07)	
		Concurrent live vertical reaction				52.62	54.02	54.02	52.62
3	65	0.00	0.00	0.00	0.00	(0.00 to 0.00)		(-0.07 to 0.07)	
		Concurrent live vertical reaction				50.03	53.15	54.71	53.15
4	105	-0.01	0.03	0.00	0.01	(-0.02 to 0.02)		(-0.06 to 0.06)	
		Concurrent live vertical reaction				51.37	51.45	51.37	51.45
5	148	-0.02	0.05	0.00	0.01	(-0.02 to 0.02)		(-0.06 to 0.06)	
		Concurrent live vertical reaction				45.90	46.19	45.90	46.19
6	189	0.16	-0.35	0.04	-0.09	(-0.05 to 0.02)		(-0.10 to 0.04)	
		Concurrent live vertical reaction				32.45	-3.32	32.45	-3.32

Torsional and flexural rotations - member local axes

Supp/Node		Noncomp Dead tors	Noncomp Dead flex	Superimp Dead tors	Superimp Dead flex	LL+I+SDWK Range tors		LL+I+SDWK Range flex	

1	2	0.20	0.17	0.05	0.04	(-0.03 to 0.03)	(0.00 to 0.09)
2	27	-0.01	-0.02	0.00	0.00	(-0.01 to 0.01)	(-0.06 to 0.07)
3	65	0.00	0.00	0.00	0.00	(0.00 to 0.00)	(-0.07 to 0.07)
4	105	-0.01	0.03	0.00	0.01	(-0.02 to 0.02)	(-0.06 to 0.06)
5	148	-0.02	0.05	0.00	0.01	(-0.02 to 0.02)	(-0.06 to 0.06)
6	189	0.16	-0.35	0.04	-0.09	(-0.05 to 0.02)	(-0.10 to 0.04)

BRIDGE 2B-UNIT 2
Girder System : Analysis Output : Reactions - Girder 3 BEAM 2

Girder 3 Service Vertical Reactions - k

Supp/Node	Noncomp Dead	Super-Imposed Dead	Max Live+ Impact	Min Live+ Impact	Sidewalk Max	Sidewalk Min
Governing						
5 ~~1~~ 3	85.48	23.48	79.16	-6.45	0.00	0.00
Steel	25.67					
Concrete	59.81					

Global x concurrent LL+I rot. -0.0102 -0.0101 deg
Global y concurrent LL+I rot. 0.0224 -0.0074 deg

Max LL+I Contribution by Lane

1	2
31.51	47.65

Concurrent reactions using same governing loaded lanes as for Max LL+I

Concurrent at gdr 1 - 4 6.73

Concurrent at gdr 2 - 3 51.75

Concurrent at gdr 4 - 1 33.44

6 ~~2~~ 35	291.86	80.95	129.39	-10.19	0.00	0.00
Steel	87.55					
Concrete	204.31					

Global x concurrent LL+I rot. 0.0032 -0.0032 deg
Global y concurrent LL+I rot. 0.0151 -0.0143 deg

Max LL+I Contribution by Lane

1	2
60.91	68.47

Concurrent reactions using same governing loaded lanes as for Max LL+I

Concurrent at gdr 1 - 4 33.87

Concurrent at gdr 2 - 3 106.93

Concurrent at gdr 4 - 1 131.04

7 ~~3~~ 75	274.39	76.56	133.53	-17.05	0.00	0.00
Steel	85.04					
Concrete	189.34					

Global x concurrent LL+I rot. 0.0009 -0.0008 deg
Global y concurrent LL+I rot. 0.0156 -0.0154 deg

Max LL+I Contribution by Lane

```
      1          2
   62.97      70.56

Concurrent reactions using same governing loaded lanes
as for Max LL+I

 Concurrent at gdr  1 - 4    34.73

 Concurrent at gdr  2 - 3   110.98

 Concurrent at gdr  4 - 1   139.31

8  4  115    299.03     84.67    140.49    -15.14    0.00     0.00
   Steel      90.01
   Concrete  209.02

Global x concurrent LL+I rot.   0.0065   -0.0054 deg
Global y concurrent LL+I rot.   0.0189   -0.0161 deg

Max LL+I Contribution by Lane
      1          2
   65.11      75.37

Concurrent reactions using same governing loaded lanes
as for Max LL+I

 Concurrent at gdr  1 - 4    41.44

 Concurrent at gdr  2 - 3   113.00

 Concurrent at gdr  4 - 1   156.56

9  5  159    374.21    103.79    156.47     -8.56    0.00     0.00
   Steel     113.75
   Concrete  260.46

Global x concurrent LL+I rot.   0.0068   -0.0072 deg
Global y concurrent LL+I rot.   0.0189   -0.0202 deg

Max LL+I Contribution by Lane
      1          2
   68.87      87.60

Concurrent reactions using same governing loaded lanes
as for Max LL+I

 Concurrent at gdr  1 -      48.90

 Concurrent at gdr  2 -     117.37

 Concurrent at gdr  4 -     139.87

10 6  199    102.96     29.47     73.03     -7.94    0.00     0.00
   Steel      31.55
   Concrete   71.40

Global x concurrent LL+I rot.  -0.0134   -0.0135 deg
Global y concurrent LL+I rot.  -0.0288   -0.0289 deg

Max LL+I Contribution by Lane
      1          2
```

31.23 41.80

Concurrent reactions using same governing loaded lanes
as for Max LL+I

Concurrent at gdr 1 - 4 7.95

Concurrent at gdr 2 - 3 51.05

Concurrent at gdr 4 - 1 41.76

Truck Loading

1	3	79.16	-4.55
2	35	91.97	-6.48
3	75	92.39	-7.80
4	115	91.80	-6.61
5	159	83.37	-6.22
6	199	73.03	-5.25

Lane Loading

1	3	63.30	-6.34
2	35	129.39	-8.83
3	75	133.53	-15.76
4	115	140.49	-14.40
5	159	156.47	-8.41
6	199	70.05	-7.77

Fatigue Truck

1	3	33.17	-3.46
2	35	41.01	-4.93
3	75	41.46	-6.00
4	115	41.62	-5.06
5	159	35.39	-4.75
6	199	31.00	-4.02

Support Rotations - Degrees

About global axes used in Girder Geometry table

Supp/Node		Noncomp Dead x-axis	Noncomp Dead y-axis	Superimp Dead x-axis	Superimp Dead y-axis	LL+I+SDWK Range x-axis		LL+I+SDWK Range y-axis	
1	3	0.09	0.20	0.02	0.05	(-0.03 to	0.01)	(-0.02 to	0.06)
		Concurrent live vertical reaction				33.48	-2.55	-2.55	33.48
2	35	0.00	-0.01	0.00	0.00	(-0.01 to	0.01)	(-0.04 to	0.04)
		Concurrent live vertical reaction				42.96	40.02	40.02	42.96
3	75	0.00	-0.01	0.00	0.00	(0.00 to	0.00)	(-0.04 to	0.04)
		Concurrent live vertical reaction				44.02	44.31	44.02	44.31
4	115	-0.02	0.05	0.00	0.01	(-0.02 to	0.02)	(-0.05 to	0.05)
		Concurrent live vertical reaction				43.12	42.83	43.12	42.83
5	159	-0.01	0.01	0.00	0.00	(-0.02 to	0.02)	(-0.06 to	0.05)
		Concurrent live vertical reaction				47.87	42.09	47.87	42.09
6	199	0.14	-0.30	0.03	-0.07	(-0.04 to	0.01)	(-0.08 to	0.03)
		Concurrent live vertical reaction				30.41	-2.94	30.41	-2.94

Torsional and flexural rotations - member local axes

Supp/Node		Noncomp Dead tors	Noncomp Dead flex	Superimp Dead tors	Superimp Dead flex	LL+I+SDWK Range tors		LL+I+SDWK Range flex	

1	3	0.17	0.14	0.04	0.03	(-0.02 to 0.02)	(0.01 to 0.06)
2	35	0.00	-0.01	0.00	0.00	(-0.01 to 0.01)	(-0.04 to 0.04)
3	75	0.00	-0.01	0.00	0.00	(0.00 to 0.00)	(-0.04 to 0.04)
4	115	-0.02	0.05	0.00	0.01	(-0.02 to 0.02)	(-0.05 to 0.05)
5	159	-0.01	0.01	0.00	0.00	(-0.02 to 0.02)	(-0.06 to 0.05)
6	199	0.14	-0.30	0.03	-0.07	(-0.04 to 0.01)	(-0.08 to 0.03)

BRIDGE 2B-UNIT 2
Girder System : Analysis Output : Reactions - Girder 4

BEAM 1

Girder 4 Service Vertical Reactions - k

Supp/Node	Noncomp Dead	Super-Imposed Dead	Max Live+ Impact	Min Live+ Impact	Sidewalk Max	Sidewalk Min
Governing						
5 ~~1~~ 4	67.10	19.61	61.56	-17.63	0.00	0.00
Steel	19.57					
Concrete	47.53					

Global x concurrent LL+I rot. -0.0071 -0.0112 deg
Global y concurrent LL+I rot. 0.0237 -0.0071 deg

Max LL+I Contribution by Lane

1	2
6.32	55.23

Concurrent reactions using same governing loaded lanes as for Max LL+I

Concurrent at gdr 1 - 4 21.16

Concurrent at gdr 2 - 3 43.02

Concurrent at gdr 3 - 2 54.80

6 ~~2~~ 36	306.26	86.78	152.93	-31.93	0.00	0.00
Steel	91.32					
Concrete	214.94					

Global x concurrent LL+I rot. 0.0037 -0.0032 deg
Global y concurrent LL+I rot. 0.0162 -0.0154 deg

Max LL+I Contribution by Lane

1	2
27.17	125.76

Concurrent reactions using same governing loaded lanes as for Max LL+I

Concurrent at gdr 1 - 4 32.54

Concurrent at gdr 2 - 3 98.44

Concurrent at gdr 3 - 2 112.65

7 ~~3~~ 76	289.26	81.66	161.85	-48.91	0.00	0.00
Steel	88.84					
Concrete	200.42					

Global x concurrent LL+I rot. 0.0013 -0.0006 deg
Global y concurrent LL+I rot. 0.0169 -0.0165 deg

Max LL+I Contribution by Lane

```
      1          2
   29.40     132.45

Concurrent reactions using same governing loaded lanes
as for Max LL+I

 Concurrent at gdr  1 - 4    33.15

 Concurrent at gdr  2 - 3   102.11

 Concurrent at gdr  3 - 2   116.53

8 ~~4~~ 116    334.50     96.46     179.52    -44.46     0.00      0.00
 Steel      98.36
 Concrete 236.14

Global x concurrent LL+I rot.   0.0085   -0.0061 deg
Global y concurrent LL+I rot.   0.0233   -0.0187 deg

Max LL+I Contribution by Lane
      1          2
   35.93     143.59

Concurrent reactions using same governing loaded lanes
as for Max LL+I

 Concurrent at gdr  1 - 4    39.55

 Concurrent at gdr  2 - 3   104.70

 Concurrent at gdr  3 - 2   124.54

9 ~~5~~ 160    345.47     97.85     164.99    -27.47     0.00      0.00
 Steel     104.86
 Concrete 240.61

Global x concurrent LL+I rot.   0.0085   -0.0094 deg
Global y concurrent LL+I rot.   0.0238   -0.0265 deg

Max LL+I Contribution by Lane
      1          2
   30.09     134.90

Concurrent reactions using same governing loaded lanes
as for Max LL+I

 Concurrent at gdr  1 -      48.52

 Concurrent at gdr  2 -     110.37

 Concurrent at gdr  3 -     142.45

10 ~~6~~ 200     87.41     25.03      68.98    -21.69     0.00      0.00
 Steel      25.75
 Concrete   61.66

Global x concurrent LL+I rot.   0.0058   -0.0164 deg
Global y concurrent LL+I rot.   0.0126   -0.0354 deg

Max LL+I Contribution by Lane
      1          2
```

10.34 58.63

Concurrent reactions using same governing loaded lanes
as for Max LL+I

Concurrent at gdr 1 - 4 24.65

Concurrent at gdr 2 - 3 54.52

Concurrent at gdr 3 - 2 61.15

Truck Loading

1	4	61.42	-4.16
2	36	76.76	-10.81
3	76	77.38	-16.20
4	116	89.20	-15.02
5	160	77.54	-7.36
6	200	64.36	-6.62

Lane Loading

1	4	56.99	-5.53
2	36	152.93	-14.61
3	76	161.85	-30.97
4	116	179.52	-26.71
5	160	164.99	-9.60
6	200	68.98	-9.51

Fatigue Truck

1	4	39.58	-3.17
2	36	48.03	-8.19
3	76	48.21	-12.47
4	116	52.31	-11.46
5	160	47.99	-5.63
6	200	41.29	-5.09

Support Rotations - Degrees

About global axes used in Girder Geometry table

Supp/Node		Noncomp Dead x-axis	Noncomp Dead y-axis	Superimp Dead x-axis	Superimp Dead y-axis	LL+I+SDWK Range x-axis		LL+I+SDWK Range y-axis	
1	4	0.08	0.16	0.02	0.04	(-0.03 to	0.01)	(-0.02 to	0.07)
		Concurrent live vertical reaction				36.77	-2.22	-2.22	36.77
2	36	0.00	0.00	0.00	0.00	(-0.01 to	0.01)	(-0.04 to	0.05)
		Concurrent live vertical reaction				63.17	61.80	61.80	63.17
3	76	0.00	-0.02	0.00	0.00	(0.00 to	0.00)	(-0.05 to	0.05)
		Concurrent live vertical reaction				63.68	65.31	63.86	65.31
4	116	-0.03	0.07	-0.01	0.02	(-0.02 to	0.02)	(-0.05 to	0.07)
		Concurrent live vertical reaction				51.06	80.77	51.06	81.13
5	160	0.01	-0.02	0.00	-0.01	(-0.03 to	0.02)	(-0.08 to	0.07)
		Concurrent live vertical reaction				60.62	53.46	60.62	53.46
6	200	0.12	-0.25	0.03	-0.06	(-0.05 to	0.02)	(-0.10 to	0.04)
		Concurrent live vertical reaction				39.26	-3.69	39.26	-3.69

Torsional and flexural rotations - member local axes

Supp/Node	Noncomp Dead tors	Noncomp Dead flex	Superimp Dead tors	Superimp Dead flex	LL+I+SDWK Range tors	LL+I+SDWK Range flex

1	4	0.08	0.16	0.02	0.04	(-0.03 to 0.01)	(-0.02 to 0.07)
2	36	0.00	0.00	0.00	0.00	(-0.01 to 0.01)	(-0.04 to 0.05)
3	76	0.00	-0.02	0.00	0.00	(0.00 to 0.00)	(-0.05 to 0.05)
4	116	-0.03	0.07	-0.01	0.02	(-0.02 to 0.02)	(-0.05 to 0.07)
5	160	0.01	-0.02	0.00	-0.01	(-0.03 to 0.02)	(-0.08 to 0.07)
6	200	0.12	-0.25	0.03	-0.06	(-0.05 to 0.02)	(-0.10 to 0.04)

BRIDGE 2B-UNIT 2
Girder 1 : Rating Output : Dimensions

Girder 1 Dimensions

Tenth Point	Loc	-Top Flange- tfw	tft	weld	----Web---- wd	wt	weld	-Bot Flange- bfw	bft	Area
0	0.00	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
1	14.94	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
2	29.88	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
3	44.83	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpL	54.42	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpR	54.42	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
4	59.77	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
5	74.71	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
6	89.65	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
7	104.59	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpL	109.42	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpR	109.42	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.250	108.88
8	119.54	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.250	108.88
SpL	129.42	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.250	108.88
SpR	129.42	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
9	134.48	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
10	149.42	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
11	167.53	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
SpL	169.42	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
SpR	169.42	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.250	108.88
12	185.63	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.250	108.88
SpL	189.42	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.250	108.88
SpR	189.42	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
13	203.74	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
14	221.85	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
15	239.95	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
16	258.06	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
17	276.16	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpL	290.48	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpR	290.48	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
18	294.27	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	310.48	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	310.48	18.00	1.875	5/16	78.00	0.812	5/16	22.00	2.125	143.88
19	312.38	18.00	1.875	5/16	78.00	0.812	5/16	22.00	2.125	143.88
20	330.48	18.00	1.875	5/16	78.00	0.812	5/16	22.00	2.125	143.88
21	348.59	18.00	1.875	5/16	78.00	0.812	5/16	22.00	2.125	143.88
SpL	350.48	18.00	1.875	5/16	78.00	0.812	5/16	22.00	2.125	143.88
SpR	350.48	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
22	366.70	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	370.48	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	370.48	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.000	107.88
23	384.81	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.000	107.88
24	402.92	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.000	107.88
25	421.02	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.000	107.88
26	439.13	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.000	107.88
27	457.24	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.000	107.88
SpL	471.56	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.000	107.88
SpR	471.56	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
28	475.35	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	491.56	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	491.56	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
29	493.45	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
30	511.56	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
SpL	531.56	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
SpR	531.56	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
31	532.07	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	551.56	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	551.56	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
32	552.57	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
33	573.08	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
34	593.59	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
35	614.09	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
36	634.60	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
37	655.11	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
38	675.61	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38

SpL	676.62	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpR	676.62	18.00	1.500	5/16	78.00	0.812	5/16	22.00	1.500	123.38
39	696.12	18.00	1.500	5/16	78.00	0.812	5/16	22.00	1.500	123.38
SpL	696.62	18.00	1.500	5/16	78.00	0.812	5/16	22.00	1.500	123.38
SpR	696.62	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
40	716.62	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
41	734.51	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
SpL	736.62	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
SpR	736.62	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.500	118.88
42	752.40	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.500	118.88
SpL	766.62	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.500	118.88
SpR	766.62	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
43	770.29	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
44	788.17	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
45	806.06	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
46	823.95	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
47	841.84	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
SpL	856.62	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
SpR	856.62	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
48	859.72	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
49	877.61	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
50	895.50	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38

Theoretical Flange Splice Locations

Tenth Pt Range	Location	
7 - 8	b	Reinf Fatigue
8 - 9	b	Reinf Fatigue
11 - 12	b	Reinf Fatigue
12 - 13	b	Reinf Fatigue
17 - 18	b	Reinf Fatigue
18 - 19	a	
21 - 22	a	
22 - 23	a	
27 - 28	a	
28 - 29	a	
30 - 31	521.17	
31 - 32	b	Reinf Fatigue
38 - 39	b	Reinf Fatigue
39 - 40	699.85	
41 - 42	a	
42 - 43	a	
47 - 48	b	Reinf Fatigue

a. Splice not required in this range.
b. Constraint violation at a straddling tenth point or existing splice prevents determination of theoretical cutoff location in this range.

Bearing Stiffeners

Location	Width	Thickness
0.00	7.00	0.750
149.42	7.00	0.750
330.48	7.00	0.750
511.56	7.00	0.750
716.62	7.00	0.750
895.50	7.00	0.750

BRIDGE 2B-UNIT 2
Girder 2 : Rating Output : Dimensions

Girder 2 Dimensions

Tenth Point	Loc	-Top Flange- tfw	tft	weld	----Web---- wd	wt	weld	-Bot Flange- bfw	bft	Area
0	0.00	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
1	14.73	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
2	29.46	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
3	44.20	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpL	53.57	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpR	53.57	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
4	58.93	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
5	73.66	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
6	88.39	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
7	103.12	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpL	107.82	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpR	107.82	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.250	108.88
8	117.85	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.250	108.88
SpL	127.57	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.250	108.88
SpR	127.57	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
9	132.59	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
10	147.32	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
11	165.17	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
SpL	167.07	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
SpR	167.07	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.250	108.88
12	183.03	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.250	108.88
SpL	186.82	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.250	108.88
SpR	186.82	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
13	200.88	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
14	218.73	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
15	236.59	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
16	254.44	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
17	272.30	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpL	286.36	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpR	286.36	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
18	290.15	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	306.11	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	306.11	18.00	1.875	5/16	78.00	0.812	5/16	22.00	2.125	143.88
19	308.01	18.00	1.875	5/16	78.00	0.812	5/16	22.00	2.125	143.88
20	325.86	18.00	1.875	5/16	78.00	0.812	5/16	22.00	2.125	143.88
21	343.71	18.00	1.875	5/16	78.00	0.812	5/16	22.00	2.125	143.88
SpL	345.61	18.00	1.875	5/16	78.00	0.812	5/16	22.00	2.125	143.88
SpR	345.61	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
22	361.57	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	365.36	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	365.36	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.000	107.88
23	379.43	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.000	107.88
24	397.28	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.000	107.88
25	415.14	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.000	107.88
26	432.99	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.000	107.88
27	450.85	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.000	107.88
SpL	464.92	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.000	107.88
SpR	464.92	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
28	468.70	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	484.67	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	484.67	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
29	486.56	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
30	504.41	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
SpL	524.42	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
SpR	524.42	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
31	524.91	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	544.42	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	544.42	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
32	545.40	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
33	565.89	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
34	586.38	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
35	606.87	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
36	627.36	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
37	647.86	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
38	668.35	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38

SpL	669.33	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpR	669.33	18.00	1.500	5/16	78.00	0.812	5/16	22.00	1.500	123.38
39	688.84	18.00	1.500	5/16	78.00	0.812	5/16	22.00	1.500	123.38
SpL	689.33	18.00	1.500	5/16	78.00	0.812	5/16	22.00	1.500	123.38
SpR	689.33	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
40	709.33	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
41	727.13	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
SpL	729.33	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
SpR	729.33	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.500	118.88
42	744.93	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.500	118.88
SpL	759.33	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.500	118.88
SpR	759.33	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
43	762.73	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
44	780.53	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
45	798.33	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
46	816.13	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
47	833.93	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
SpL	849.33	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
SpR	849.33	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
48	851.73	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
49	869.53	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
50	887.33	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38

Theoretical Flange Splice Locations

Tenth Pt Range	Location
7 - 8	a
8 - 9	a
11 - 12	a
12 - 13	a
17 - 18	a
18 - 19	a
21 - 22	a
22 - 23	a
27 - 28	a
28 - 29	a
30 - 31	510.75
31 - 32	a
38 - 39	678.60
39 - 40	697.13
41 - 42	a
42 - 43	a
47 - 48	a

a. Splice not required in this range.

Bearing Stiffeners

Location	Width	Thickness
0.00	7.00	0.750
147.32	7.00	0.750
325.86	7.00	0.750
504.41	7.00	0.750
709.33	7.00	0.750
887.33	7.00	0.750

BRIDGE 2B-UNIT 2
Girder 3 : Rating Output : Dimensions

Girder 3 Dimensions

Tenth Point	Loc	-Top Flange- tfw	tft	weld	----Web---- wd	wt	weld	-Bot Flange- bfw	bft	Area
0	0.00	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
1	14.52	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
2	29.04	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
3	43.56	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpL	52.97	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpR	52.97	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
4	58.09	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
5	72.61	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
6	87.13	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
7	101.65	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpL	106.38	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpR	106.38	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.250	108.88
8	116.17	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.250	108.88
SpL	125.80	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.250	108.88
SpR	125.80	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
9	130.69	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
10	145.22	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
11	162.82	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
SpL	164.63	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
SpR	164.63	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.250	108.88
12	180.42	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.250	108.88
SpL	184.05	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.250	108.88
SpR	184.05	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
13	198.02	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
14	215.62	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
15	233.23	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
16	250.83	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
17	268.43	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpL	282.40	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpR	282.40	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
18	286.03	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	301.82	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	301.82	18.00	1.875	5/16	78.00	0.812	5/16	22.00	2.125	143.88
19	303.63	18.00	1.875	5/16	78.00	0.812	5/16	22.00	2.125	143.88
20	321.23	18.00	1.875	5/16	78.00	0.812	5/16	22.00	2.125	143.88
21	338.84	18.00	1.875	5/16	78.00	0.812	5/16	22.00	2.125	143.88
SpL	340.65	18.00	1.875	5/16	78.00	0.812	5/16	22.00	2.125	143.88
SpR	340.65	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
22	356.44	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	360.07	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	360.07	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.000	107.88
23	374.04	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.000	107.88
24	391.65	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.000	107.88
25	409.25	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.000	107.88
26	426.85	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.000	107.88
27	444.46	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.000	107.88
SpL	458.43	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.000	107.88
SpR	458.43	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
28	462.06	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	477.85	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	477.85	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
29	479.66	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
30	497.27	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
SpL	517.27	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
SpR	517.27	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
31	517.74	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	537.27	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	537.27	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
32	538.22	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
33	558.70	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
34	579.18	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
35	599.65	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
36	620.13	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
37	640.61	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
38	661.09	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38

SpL	662.04	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpR	662.04	18.00	1.500	5/16	78.00	0.812	5/16	22.00	1.500	123.38
39	681.56	18.00	1.500	5/16	78.00	0.812	5/16	22.00	1.500	123.38
SpL	682.04	18.00	1.500	5/16	78.00	0.812	5/16	22.00	1.500	123.38
SpR	682.04	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
40	702.04	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
41	719.75	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
SpL	722.04	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
SpR	722.04	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.500	118.88
42	737.47	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.500	118.88
SpL	752.04	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.500	118.88
SpR	752.04	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
43	755.18	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
44	772.89	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
45	790.61	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
46	808.32	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
47	826.03	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
SpL	842.04	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
SpR	842.04	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
48	843.75	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
49	861.46	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
50	879.17	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38

Theoretical Flange Splice Locations

Tenth Pt Range	Location
7 - 8	a
8 - 9	a
11 - 12	a
12 - 13	a
17 - 18	a
18 - 19	a
21 - 22	a
22 - 23	a
27 - 28	a
28 - 29	a
30 - 31	501.95
31 - 32	a
38 - 39	a
39 - 40	691.81
41 - 42	a
42 - 43	a
47 - 48	a

a. Splice not required in this range.

Bearing Stiffeners

Location	Width	Thickness
0.00	7.00	0.750
145.22	7.00	0.750
321.23	7.00	0.750
497.27	7.00	0.750
702.04	7.00	0.750
879.17	7.00	0.750

BRIDGE 2B-UNIT 2
Girder 4 : Rating Output : Dimensions

Girder 4 Dimensions

Tenth Point	Loc	-Top Flange- tfw	tft	weld	----Web---- wd	wt	weld	-Bot Flange- bfw	bft	Area
0	0.00	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
1	14.31	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
2	28.62	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
3	42.93	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpL	52.11	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpR	52.11	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
4	57.25	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
5	71.56	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
6	85.87	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
7	100.18	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpL	104.78	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpR	104.78	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.250	108.88
8	114.49	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.250	108.88
SpL	123.95	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.250	108.88
SpR	123.95	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
9	128.80	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
10	143.11	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
11	160.46	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
SpL	162.28	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
SpR	162.28	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.250	108.88
12	177.81	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.250	108.88
SpL	181.45	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.250	108.88
SpR	181.45	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
13	195.16	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
14	212.51	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
15	229.86	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
16	247.21	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
17	264.56	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpL	278.28	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpR	278.28	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
18	281.91	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	297.44	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	297.44	18.00	1.875	5/16	78.00	0.812	5/16	22.00	2.125	143.88
19	299.26	18.00	1.875	5/16	78.00	0.812	5/16	22.00	2.125	143.88
20	316.61	18.00	1.875	5/16	78.00	0.812	5/16	22.00	2.125	143.88
21	333.96	18.00	1.875	5/16	78.00	0.812	5/16	22.00	2.125	143.88
SpL	335.78	18.00	1.875	5/16	78.00	0.812	5/16	22.00	2.125	143.88
SpR	335.78	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
22	351.31	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	354.94	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	354.94	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.000	107.88
23	368.66	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.000	107.88
24	386.01	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.000	107.88
25	403.37	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.000	107.88
26	420.72	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.000	107.88
27	438.07	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.000	107.88
SpL	451.79	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.000	107.88
SpR	451.79	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
28	455.42	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	470.96	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	470.96	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
29	472.77	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
30	490.12	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
SpL	510.12	18.00	2.000	5/16	78.00	0.812	5/16	22.00	2.125	146.12
SpR	510.12	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
31	510.58	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpL	530.12	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.250	113.38
SpR	530.12	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
32	531.05	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
33	551.51	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
34	571.97	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
35	592.43	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
36	612.90	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
37	633.36	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
38	653.82	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38

SpL	654.75	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
SpR	654.75	18.00	1.500	5/16	78.00	0.812	5/16	22.00	1.500	123.38
39	674.28	18.00	1.500	5/16	78.00	0.812	5/16	22.00	1.500	123.38
SpL	674.75	18.00	1.500	5/16	78.00	0.812	5/16	22.00	1.500	123.38
SpR	674.75	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
40	694.75	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
41	712.37	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
SpL	714.75	18.00	2.750	5/16	78.00	0.812	5/16	22.00	2.750	173.38
SpR	714.75	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.500	118.88
42	730.00	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.500	118.88
SpL	744.75	18.00	1.250	5/16	78.00	0.812	5/16	22.00	1.500	118.88
SpR	744.75	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
43	747.63	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
44	765.25	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
45	782.88	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
46	800.50	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
47	818.13	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
SpL	834.75	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.500	114.38
SpR	834.75	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
48	835.76	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
49	853.38	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38
50	871.01	18.00	1.000	5/16	78.00	0.812	5/16	22.00	1.000	103.38

Theoretical Flange Splice Locations

Tenth Pt Range	Location
7 - 8	a
8 - 9	a
11 - 12	a
12 - 13	a
17 - 18	a
18 - 19	a
21 - 22	a
22 - 23	a
27 - 28	a
28 - 29	a
30 - 31	497.29
31 - 32	a
38 - 39	a
39 - 40	684.04
41 - 42	a
42 - 43	a
47 - 48	a

a. Splice not required in this range.

Bearing Stiffeners

Location	Width	Thickness
0.00	7.00	0.750
143.11	7.00	0.750
316.61	7.00	0.750
490.12	7.00	0.750
694.75	7.00	0.750
871.01	7.00	0.750