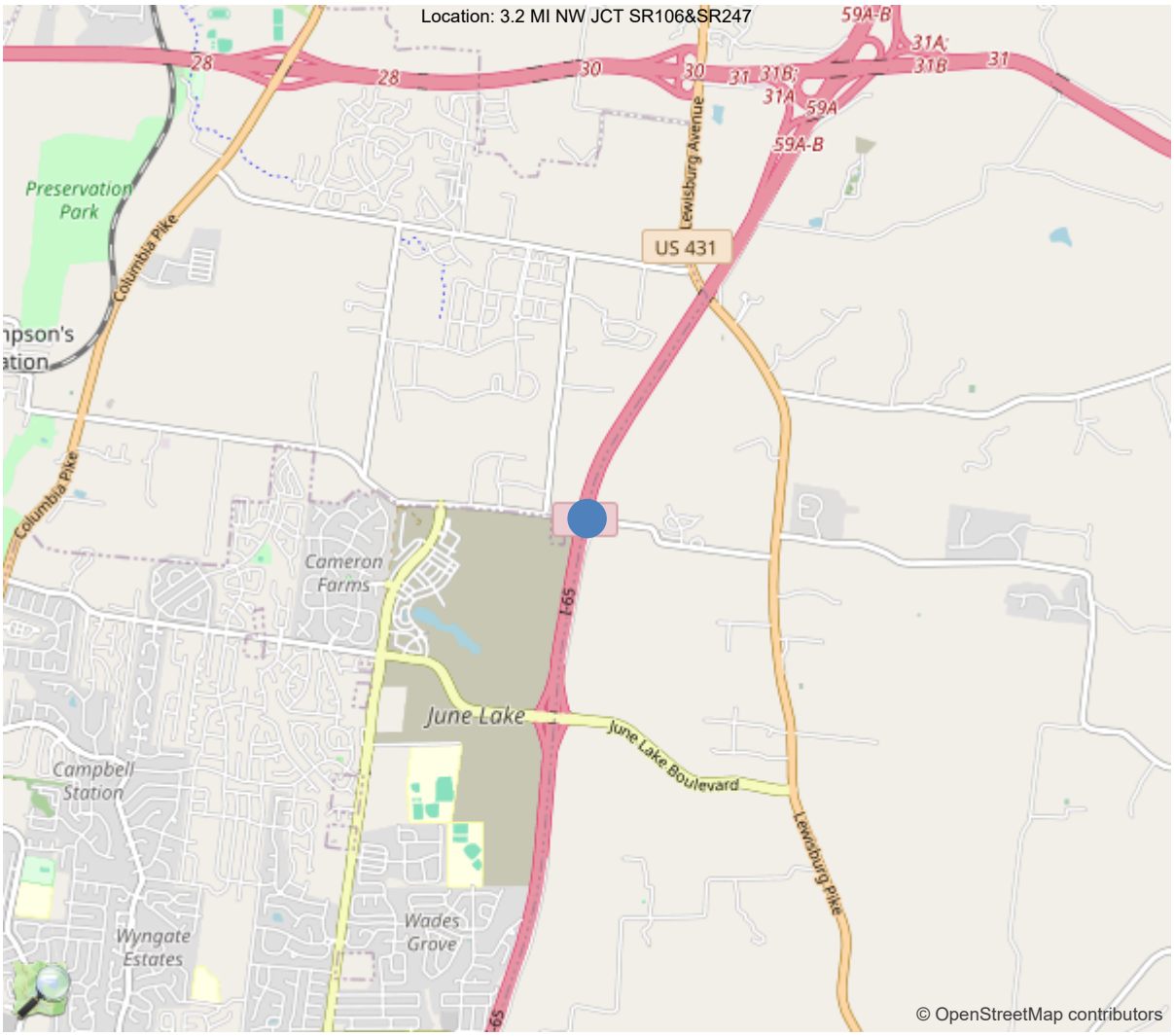
Asset **#94I00650003**(Load Rating)

Co: 94 - Williamson, **Rt:** 01928, **Lm:** 0.970

Load Rating Lead: Lindsey Siebe, **Load Rating Date:** 06/25/2026



35.78971, -86.86071

TN TDOT Department of Transportation

Asset **#94I00650003**(Load Rating)

Co: 94 - Williamson, **Rt:** 01928, **Lm:** 0.970

Load Rating Lead: Lindsey Siebe, **Load Rating Date:** 06/25/2026

CONDITION

B.C.01 Deck	7 - 7 - GOOD - Some minor defects.
B.C.02 Superstructure	6 - 6 - SATISFACTORY - Widespread minor or isolated moderate defects.
B.C.03 Substructure	7 - 7 - GOOD - Some minor defects.
B.C.04 Culvert	N - N - NOT APPLICABLE - Component does not exist.
B.C.11 Scour Condition Rating	N - N - Bridge does not cross over water.
B.C.14 NSTM Inspection Condition	
521 Overall Condition	F - Fair

Load Rating

548 - Ratings Based On	AASHTOWare Bridge Rating
B.LR.04 - Rating Method	LRFR - Load and Resistance Factor Rating
B.LR.05 - Inventory Rating Factor	0.34
B.LR.06 - Operating Rating Factor	0.91
SU TDOT RF	~~1.09~~
MU TDOT RF	1.11
B.LR.08 - Routine permit loads	C - Bridge does not carry routine permit loads. Load capacity is inadequate for all routine permit loads approved for the route segment. Routine permit loads are restricted from the bridge.

Posting

Single Unit Posting	40
Multi Unit Posting	40
Posting Status	Permanent - Posted
Posting Status Change Date	11/01/2023
Posting Log Note	

Notes

Wearing Surf. thickness in load rating	3.50
ADTT used in Load rating	100
Approved for Reach-All use	
547 - evaluation sheet note	THIS STRUCTURE WAS CHECKED IN RESPONSE TO THE NEW ANNUAL OVERLOAD PERMIT SPECIFICATIONS. A 40 TON WEIGHT POSTING IS NEEDED. DETERMINED BY VIRTIS ANALYSIS. 2021.08.24: LOAD RATING CALCULATIONS ARE DONE ON AASHTOWARE BRR. A 40 TON POSTING WILL REMAIN ON THE BRIDGE.

Weight Posting Analysis

Bridge ID: 94I00650003

July 28, 2026

Legal Vehicles					SNBI Posting	
Live Load	Rating Level	Rating Factor	Weight (Tons)	Safe Posting Load (Tons)	B.EP.03	B.EP.04
School Bus - Standard	Legal	2.79	14.5	N/A	G	40
NBF SU2	Permit	2.35	18	N/A	G	40
NBF SU3	Permit	1.47	28	N/A	G	40
NBF SU4	Permit	1.11	37	N/A	G	40
NBF SU5	Permit	1.03	40	N/A	G	40
NBF SU6	Permit	1.06	40	N/A	G	40
NBF MU3	Permit	1.65	40	N/A	G	40
NBF MU4	Permit	1.45	40	N/A	G	40
NBF MU5c	Permit	1.43	40	N/A	G	40
NBF MU5a	Permit	1.11	40	N/A	G	40
NBF MU5b	Permit	1.47	40	N/A	G	40
NBF MU6a	Permit	1.38	40	N/A	G	40
NBF MU6b	Permit	1.33	40	N/A	G	40
NBF MU6c	Permit	1.23	40	N/A	G	40
NBF MU6d	Permit	1.42	40	N/A	G	40
TDOT NBF Lane load	Legal	99.00	40	N/A		
EV2	Legal	1.44	28.8	N/A	G	40
EV3	Legal	0.94	43	36.0	G	40

The BrR model used was checked and approved previously as shown in the subsequent pages. The HL-93 rating factors match in both the previous results and the current results. This validates the same BrR model was used and no software updates affected the load rating.

Permit and Emergency Vehicles				
Live Load	Rating Level	Rating Factor	Weight (Tons)	Safe Posting Load (Tons)
Annual Permit 1	Permit	1.10		N/A
Annual Permit 2	Permit	0.87		40
Ocean	Permit	1.08		N/A
Tow 1	Permit	1.11	42.5	N/A
Tow 2	Permit	1.14	41.5	N/A
Tow 3	Permit	1.16	42.5	N/A
Tow 4	Permit	0.88	82.5	68.4
Tow 5	Permit	0.93	82.5	74.3

InspectX Data	
HL-93 Inventory	**0.34**
HL-93 Operating	**0.91**
Item 70	**5**
SU TDOT CRF	**1.03**
MU TDOT CRF	**1.11**
AP Control RF	**0.87**
Tow WO CRF	**1.11**
Tow W CRF	**0.88**
SNBI - Routine Permits	**C**

Note: CRF stands for Controlling Rating Factor.

No change in posting is required.

Minimum Safe Posting Loa	**Gross**	**40.0**	**Tons**	**Emergency Vehicle Restrictions**	**Single Axle**	N/A	**Tons**
	Single Unit	N/A	**Tons**		**Tandem Axle**	N/A	**Tons**
	Multi-unit	N/A	**Tons**		**Gross**	N/A	**Tons**
Actual Weight Posting Va	**Gross**	**40**	**Tons**	**Tow Truck Restrictions**			
	Single Unit	**N/A**	**Tons**		**Tow Truck Limit:**	**N/A**	**Tons**
	Multi-unit	**N/A**	**Tons**		**Tow Truck w/ Towed Vehicle Limit:**	**68 T**	**Tons**

Determined By: REVIEWED
By Lindsey Siebe at 12:04 pm, Jun 25, 2026

Approved By: APPROVED
By Megan Finney, PE at 8:59 am, Aug 05, 2026

Bridge Name: Thompson's Station Rd / I-65
NBI Structure ID: 94I00650003
Bridge ID: 94I00650003

Analyzed By: bridge_rating
Analyze Date: Tuesday, July 28, 2026 13:50:55
Analysis Engine: AASHTO LRFR Engine Version 7.4.1.3001
Analysis Preference Setting: None

Report By: bridge_rating
Report Date: Tuesday, July 28, 2026 13:53:32

Structure Definition Name: 52' Span
Member Name: G1
Member Alternative Name: G1

Load and Resistance Factor Rating Summary

Girder Summary

Live Load		Rating Factor	Controls	Capacity (Ton)	Span	Location (ft)	Percent
Annual Permit 1	Permit	1.351	STRENGTH-II Concrete Flexure	111.46	1	25.25	50
Annual Permit 2	Permit	1.192	STRENGTH-II Concrete Flexure	98.34	1	25.25	50
EV2	Legal	1.611	STRENGTH-I Concrete Flexure	46.32	1	25.25	50
EV3	Legal	1.042	STRENGTH-I Concrete Flexure	44.83	1	25.25	50
HL-93 (US)	Inventory	0.673	STRENGTH-I Concrete Shear	24.21	1	10.1	20
HL-93 (US)	Operating	1.083	STRENGTH-I Concrete Flexure	38.97	1	25.25	50
NBF MU3	Permit	1.992	STRENGTH-II Concrete Flexure	59.77	1	25.25	50
NBF MU4	Permit	1.74	STRENGTH-II Concrete Flexure	65.61	1	25.25	50
NBF MU5a	Permit	1.295	STRENGTH-II Concrete Flexure	57.03	1	25.25	50
NBF MU5b	Permit	1.71	STRENGTH-II Concrete Flexure	75.6	1	25.25	50
NBF MU5c	Permit	1.689	STRENGTH-II Concrete Flexure	74.13	1	25.25	50
NBF MU6a	Permit	1.774	STRENGTH-II Concrete Flexure	78.4	1	25.25	50
NBF MU6b	Permit	1.535	STRENGTH-II Concrete Flexure	67.86	1	25.25	50
NBF MU6c	Permit	1.486	STRENGTH-II Concrete Flexure	65.69	1	25.25	50
NBF MU6d	Permit	1.677	STRENGTH-II Concrete Flexure	74.14	1	25.25	50
NBF SU2	Permit	2.591	STRENGTH-II Concrete Flexure	49.23	1	25.25	50
NBF SU3	Permit	1.61	STRENGTH-II Concrete Flexure	48.31	1	25.25	50
NBF SU4	Permit	1.228	STRENGTH-II Concrete Flexure	49.1	1	25.25	50
NBF SU5	Permit	1.136	STRENGTH-II Concrete Flexure	50	1	25.25	50
NBF SU6	Permit	1.185	STRENGTH-II Concrete Flexure	52.15	1	25.25	50
Ocean	Permit	1.31	STRENGTH-II Concrete Flexure	65.49	1	25.25	50
Overweight Permit	Permit	1.276	STRENGTH-II Concrete Flexure	162.72	1	25.25	50
Passenger Vehicle - 3 Tons	Legal	13.77	STRENGTH-I Concrete Flexure	41.31	1	25.25	50
School Bus - Small	Legal	8.361	STRENGTH-I Concrete Flexure	42.64	1	25.25	50
School Bus - Standard	Legal	3.101	STRENGTH-I Concrete Flexure	44.97	1	25.25	50
TDOT NBF Lane load	Legal	99	STRENGTH-I Concrete Flexure	3279.38	1	0	0
Tow 1	Permit	1.25	STRENGTH-II Concrete Flexure	53.11	1	25.25	50
Tow 2	Permit	1.283	STRENGTH-II Concrete Flexure	53.25	1	25.25	50
Tow 3	Permit	1.32	STRENGTH-II Concrete Flexure	56.11	1	25.25	50
Tow 4	Permit	1.015	STRENGTH-II Concrete Flexure	83.76	1	25.25	50
Tow 5	Permit	1.079	STRENGTH-II Concrete Flexure	88.98	1	25.25	50

Note:
"N/A" indicates not applicable
"" indicates not available**

Bridge Name: Thompson's Station Rd / I-65
NBI Structure ID: 94I00650003
Bridge ID: 94I00650003

Analyzed By: bridge_rating
Analyze Date: Tuesday, July 28, 2026 13:50:55
Analysis Engine: AASHTO LRFR Engine Version 7.4.1.3001
Analysis Preference Setting: None

Report By: bridge_rating
Report Date: Tuesday, July 28, 2026 13:53:32

Structure Definition Name: 52' Span
Member Name: G2
Member Alternative Name: G2

Load and Resistance Factor Rating Summary

Girder Summary

Live Load		Rating Factor	Controls	Capacity (Ton)	Span	Location (ft)	Percent
Annual Permit 1	Permit	1.561	STRENGTH-II Concrete Flexure	128.81	1	25.25	50
Annual Permit 2	Permit	1.378	STRENGTH-II Concrete Flexure	113.66	1	25.25	50
EV2	Legal	1.862	STRENGTH-I Concrete Flexure	53.54	1	25.25	50
EV3	Legal	1.205	STRENGTH-I Concrete Flexure	51.81	1	25.25	50
HL-93 (US)	Inventory	0.965	STRENGTH-I Concrete Flexure	34.75	1	25.25	50
HL-93 (US)	Operating	1.251	STRENGTH-I Concrete Flexure	45.04	1	25.25	50
NBF MU3	Permit	2.303	STRENGTH-II Concrete Flexure	69.08	1	25.25	50
NBF MU4	Permit	2.011	STRENGTH-II Concrete Flexure	75.83	1	25.25	50
NBF MU5a	Permit	1.496	STRENGTH-II Concrete Flexure	65.91	1	25.25	50
NBF MU5b	Permit	1.977	STRENGTH-II Concrete Flexure	87.37	1	25.25	50
NBF MU5c	Permit	1.952	STRENGTH-II Concrete Flexure	85.68	1	25.25	50
NBF MU6a	Permit	2.05	STRENGTH-II Concrete Flexure	90.61	1	25.25	50
NBF MU6b	Permit	1.774	STRENGTH-II Concrete Flexure	78.43	1	25.25	50
NBF MU6c	Permit	1.718	STRENGTH-II Concrete Flexure	75.92	1	25.25	50
NBF MU6d	Permit	1.939	STRENGTH-II Concrete Flexure	85.68	1	25.25	50
NBF SU2	Permit	2.995	STRENGTH-II Concrete Flexure	56.9	1	25.25	50
NBF SU3	Permit	1.861	STRENGTH-II Concrete Flexure	55.83	1	25.25	50
NBF SU4	Permit	1.419	STRENGTH-II Concrete Flexure	56.75	1	25.25	50
NBF SU5	Permit	1.313	STRENGTH-II Concrete Flexure	57.79	1	25.25	50
NBF SU6	Permit	1.37	STRENGTH-II Concrete Flexure	60.27	1	25.25	50
Ocean	Permit	1.514	STRENGTH-II Concrete Flexure	75.69	1	25.25	50
Overweight Permit	Permit	1.607	STRENGTH-II Concrete Flexure	204.94	1	25.25	50
Passenger Vehicle - 3 Tons	Legal	15.915	STRENGTH-I Concrete Flexure	47.75	1	25.25	50
School Bus - Small	Legal	9.663	STRENGTH-I Concrete Flexure	49.28	1	25.25	50
School Bus - Standard	Legal	3.584	STRENGTH-I Concrete Flexure	51.97	1	25.25	50
TDOT NBF Lane load	Legal	99	STRENGTH-I Concrete Flexure	3279.38	1	0	0
Tow 1	Permit	1.444	STRENGTH-II Concrete Flexure	61.39	1	25.25	50
Tow 2	Permit	1.483	STRENGTH-II Concrete Flexure	61.55	1	25.25	50
Tow 3	Permit	1.526	STRENGTH-II Concrete Flexure	64.85	1	25.25	50
Tow 4	Permit	1.173	STRENGTH-II Concrete Flexure	96.8	1	25.25	50
Tow 5	Permit	1.247	STRENGTH-II Concrete Flexure	102.84	1	25.25	50

Note:
"N/A" indicates not applicable
"" indicates not available**

Bridge Name: Thompson's Station Rd / I-65
NBI Structure ID: 94I00650003
Bridge ID: 94I00650003

Analyzed By: bridge_rating
Analyze Date: Tuesday, July 28, 2026 13:50:55
Analysis Engine: AASHTO LRFR Engine Version 7.4.1.3001
Analysis Preference Setting: None

Report By: bridge_rating
Report Date: Tuesday, July 28, 2026 13:53:32

Structure Definition Name: 66' Span
Member Name: G1
Member Alternative Name: G1

Load and Resistance Factor Rating Summary

Girder Summary

Live Load		Rating Factor	Controls	Capacity (Ton)	Span	Location (ft)	Percent
Annual Permit 1	Permit	1.104	STRENGTH-II Concrete Flexure	91.06	1	32.25	50
Annual Permit 2	Permit	0.873	STRENGTH-II Concrete Flexure	72.06	1	32.25	50
EV2	Legal	1.443	STRENGTH-I Concrete Flexure	41.48	1	32.25	50
EV3	Legal	0.942	STRENGTH-I Concrete Flexure	40.49	1	32.25	50
HL-93 (US)	Inventory	0.346	SERVICE-III PS Tensile Stress	12.44	1	32.25	50
HL-93 (US)	Operating	0.918	STRENGTH-I Concrete Flexure	33.03	1	32.25	50
NBF MU3	Permit	1.655	STRENGTH-II Concrete Flexure	49.64	1	32.25	50
NBF MU4	Permit	1.456	STRENGTH-II Concrete Flexure	54.9	1	32.25	50
NBF MU5a	Permit	1.118	STRENGTH-II Concrete Flexure	49.25	1	32.25	50
NBF MU5b	Permit	1.473	STRENGTH-II Concrete Flexure	65.09	1	32.25	50
NBF MU5c	Permit	1.436	STRENGTH-II Concrete Flexure	63.03	1	32.25	50
NBF MU6a	Permit	1.384	STRENGTH-II Concrete Flexure	61.19	1	32.25	50
NBF MU6b	Permit	1.334	STRENGTH-II Concrete Flexure	58.98	1	32.25	50
NBF MU6c	Permit	1.234	STRENGTH-II Concrete Flexure	54.56	1	32.25	50
NBF MU6d	Permit	1.423	STRENGTH-II Concrete Flexure	62.9	1	32.25	50
NBF SU2	Permit	2.358	STRENGTH-II Concrete Flexure	44.8	1	32.25	50
NBF SU3	Permit	1.473	STRENGTH-II Concrete Flexure	44.18	1	32.25	50
NBF SU4	Permit	1.118	STRENGTH-II Concrete Flexure	44.72	1	32.25	50
NBF SU5	Permit	1.03	STRENGTH-II Concrete Flexure	45.32	1	32.25	50
NBF SU6	Permit	1.062	STRENGTH-II Concrete Flexure	46.74	1	32.25	50
Ocean	Permit	1.084	STRENGTH-II Concrete Flexure	54.19	1	32.25	50
Overweight Permit	Permit	1.039	STRENGTH-II Concrete Shear	132.45	1	2.39	3.7
Passenger Vehicle - 3 Tons	Legal	12.7	STRENGTH-I Concrete Flexure	38.1	1	32.25	50
School Bus - Small	Legal	7.65	STRENGTH-I Concrete Flexure	39.02	1	32.25	50
School Bus - Standard	Legal	2.799	STRENGTH-I Concrete Flexure	40.58	1	32.25	50
TDOT NBF Lane load	Legal	99	STRENGTH-I Concrete Flexure	3279.38	1	0	0
Tow 1	Permit	1.115	STRENGTH-II Concrete Flexure	47.38	1	32.25	50
Tow 2	Permit	1.144	STRENGTH-II Concrete Flexure	47.47	1	32.25	50
Tow 3	Permit	1.16	STRENGTH-II Concrete Flexure	49.29	1	32.25	50
Tow 4	Permit	0.882	STRENGTH-II Concrete Flexure	72.75	1	32.25	50
Tow 5	Permit	0.931	STRENGTH-II Concrete Flexure	76.8	1	32.25	50

Note:
"N/A" indicates not applicable
"" indicates not available**

Bridge Name: Thompson's Station Rd / I-65
NBI Structure ID: 94I00650003
Bridge ID: 94I00650003

Analyzed By: bridge_rating
Analyze Date: Tuesday, July 28, 2026 13:50:55
Analysis Engine: AASHTO LRFR Engine Version 7.4.1.3001
Analysis Preference Setting: None

Report By: bridge_rating
Report Date: Tuesday, July 28, 2026 13:53:32

Structure Definition Name: 66' Span
Member Name: G2
Member Alternative Name: G2

Load and Resistance Factor Rating Summary

Girder Summary

Live Load		Rating Factor	Controls	Capacity (Ton)	Span	Location (ft)	Percent
Annual Permit 1	Permit	1.33	STRENGTH-II Concrete Flexure	109.76	1	32.25	50
Annual Permit 2	Permit	1.053	STRENGTH-II Concrete Flexure	86.85	1	32.25	50
EV2	Legal	1.739	STRENGTH-I Concrete Flexure	49.99	1	32.25	50
EV3	Legal	1.135	STRENGTH-I Concrete Flexure	48.8	1	32.25	50
HL-93 (US)	Inventory	0.529	SERVICE-III PS Tensile Stress	19.06	1	32.25	50
HL-93 (US)	Operating	1.106	STRENGTH-I Concrete Flexure	39.82	1	32.25	50
NBF MU3	Permit	1.994	STRENGTH-II Concrete Flexure	59.83	1	32.25	50
NBF MU4	Permit	1.755	STRENGTH-II Concrete Flexure	66.17	1	32.25	50
NBF MU5a	Permit	1.348	STRENGTH-II Concrete Flexure	59.37	1	32.25	50
NBF MU5b	Permit	1.775	STRENGTH-II Concrete Flexure	78.46	1	32.25	50
NBF MU5c	Permit	1.731	STRENGTH-II Concrete Flexure	75.97	1	32.25	50
NBF MU6a	Permit	1.669	STRENGTH-II Concrete Flexure	73.75	1	32.25	50
NBF MU6b	Permit	1.609	STRENGTH-II Concrete Flexure	71.1	1	32.25	50
NBF MU6c	Permit	1.488	STRENGTH-II Concrete Flexure	65.76	1	32.25	50
NBF MU6d	Permit	1.715	STRENGTH-II Concrete Flexure	75.82	1	32.25	50
NBF SU2	Permit	2.842	STRENGTH-II Concrete Flexure	54	1	32.25	50
NBF SU3	Permit	1.775	STRENGTH-II Concrete Flexure	53.25	1	32.25	50
NBF SU4	Permit	1.347	STRENGTH-II Concrete Flexure	53.9	1	32.25	50
NBF SU5	Permit	1.242	STRENGTH-II Concrete Flexure	54.63	1	32.25	50
NBF SU6	Permit	1.281	STRENGTH-II Concrete Flexure	56.34	1	32.25	50
Ocean	Permit	1.306	STRENGTH-II Concrete Flexure	65.32	1	32.25	50
Overweight Permit	Permit	1.393	STRENGTH-II Concrete Shear	177.64	1	2.52	3.9
Passenger Vehicle - 3 Tons	Legal	15.308	STRENGTH-I Concrete Flexure	45.92	1	32.25	50
School Bus - Small	Legal	9.221	STRENGTH-I Concrete Flexure	47.03	1	32.25	50
School Bus - Standard	Legal	3.374	STRENGTH-I Concrete Flexure	48.92	1	32.25	50
TDOT NBF Lane load	Legal	99	STRENGTH-I Concrete Flexure	3279.38	1	0	0
Tow 1	Permit	1.344	STRENGTH-II Concrete Flexure	57.1	1	32.25	50
Tow 2	Permit	1.379	STRENGTH-II Concrete Flexure	57.21	1	32.25	50
Tow 3	Permit	1.398	STRENGTH-II Concrete Flexure	59.41	1	32.25	50
Tow 4	Permit	1.063	STRENGTH-II Concrete Flexure	87.69	1	32.25	50
Tow 5	Permit	1.122	STRENGTH-II Concrete Flexure	92.57	1	32.25	50

Note:
"N/A" indicates not applicable
"" indicates not available**

Bridge Name: Thompson's Station Rd / I-65
NBI Structure ID: 94I00650003
Bridge ID: 94I00650003

Analyzed By: bridge_rating
Analyze Date: Tuesday, July 28, 2026 13:50:55
Analysis Engine: AASHTO LRFR Engine Version 7.4.1.3001
Analysis Preference Setting: None

Report By: bridge_rating
Report Date: Tuesday, July 28, 2026 13:53:32

Structure Definition Name: 55' Span
Member Name: G1
Member Alternative Name: 1

Load and Resistance Factor Rating Summary

Girder Summary

Live Load		Rating Factor	Controls	Capacity (Ton)	Span	Location (ft)	Percent
Annual Permit 1	Permit	1.303	STRENGTH-II Concrete Flexure	107.51	1	26.75	50
Annual Permit 2	Permit	1.136	STRENGTH-II Concrete Flexure	93.72	1	26.75	50
EV2	Legal	1.575	STRENGTH-I Concrete Flexure	45.29	1	26.75	50
EV3	Legal	1.022	STRENGTH-I Concrete Flexure	43.93	1	26.75	50
HL-93 (US)	Inventory	0.653	STRENGTH-I Concrete Shear	23.49	1	16.05	30
HL-93 (US)	Operating	1.045	STRENGTH-I Concrete Flexure	37.62	1	26.75	50
NBF MU3	Permit	1.907	STRENGTH-II Concrete Flexure	57.22	1	26.75	50
NBF MU4	Permit	1.691	STRENGTH-II Concrete Flexure	63.74	1	26.75	50
NBF MU5a	Permit	1.253	STRENGTH-II Concrete Flexure	55.21	1	26.75	50
NBF MU5b	Permit	1.683	STRENGTH-II Concrete Flexure	74.4	1	26.75	50
NBF MU5c	Permit	1.661	STRENGTH-II Concrete Flexure	72.92	1	26.75	50
NBF MU6a	Permit	1.715	STRENGTH-II Concrete Flexure	75.8	1	26.75	50
NBF MU6b	Permit	1.507	STRENGTH-II Concrete Flexure	66.63	1	26.75	50
NBF MU6c	Permit	1.43	STRENGTH-II Concrete Flexure	63.21	1	26.75	50
NBF MU6d	Permit	1.625	STRENGTH-II Concrete Flexure	71.81	1	26.75	50
NBF SU2	Permit	2.545	STRENGTH-II Concrete Flexure	48.35	1	26.75	50
NBF SU3	Permit	1.583	STRENGTH-II Concrete Flexure	47.5	1	26.75	50
NBF SU4	Permit	1.206	STRENGTH-II Concrete Flexure	48.23	1	26.75	50
NBF SU5	Permit	1.115	STRENGTH-II Concrete Flexure	49.05	1	26.75	50
NBF SU6	Permit	1.159	STRENGTH-II Concrete Flexure	51	1	26.75	50
Ocean	Permit	1.253	STRENGTH-II Concrete Flexure	62.64	1	26.75	50
Overweight Permit	Permit	1.239	STRENGTH-II Concrete Flexure	157.91	1	26.75	50
Passenger Vehicle - 3 Tons	Legal	13.572	STRENGTH-I Concrete Flexure	40.72	1	26.75	50
School Bus - Small	Legal	8.223	STRENGTH-I Concrete Flexure	41.94	1	26.75	50
School Bus - Standard	Legal	3.039	STRENGTH-I Concrete Flexure	44.06	1	26.75	50
TDOT NBF Lane load	Legal	99	STRENGTH-I Concrete Flexure	3279.38	1	0	0
Tow 1	Permit	1.221	STRENGTH-II Concrete Flexure	51.88	1	26.75	50
Tow 2	Permit	1.253	STRENGTH-II Concrete Flexure	52	1	26.75	50
Tow 3	Permit	1.284	STRENGTH-II Concrete Flexure	54.58	1	26.75	50
Tow 4	Permit	0.984	STRENGTH-II Concrete Flexure	81.21	1	26.75	50
Tow 5	Permit	1.056	STRENGTH-II Concrete Flexure	87.14	1	26.75	50

Note:
"N/A" indicates not applicable
"" indicates not available**

Bridge Name: Thompson's Station Rd / I-65
NBI Structure ID: 94I00650003
Bridge ID: 94I00650003

Analyzed By: bridge_rating
Analyze Date: Tuesday, July 28, 2026 13:50:55
Analysis Engine: AASHTO LRFR Engine Version 7.4.1.3001
Analysis Preference Setting: None

Report By: bridge_rating
Report Date: Tuesday, July 28, 2026 13:53:32

Structure Definition Name: 55' Span
Member Name: G2
Member Alternative Name: G2

Load and Resistance Factor Rating Summary

Girder Summary

Live Load		Rating Factor	Controls	Capacity (Ton)	Span	Location (ft)	Percent
Annual Permit 1	Permit	1.509	STRENGTH-II Concrete Flexure	124.53	1	26.75	50
Annual Permit 2	Permit	1.316	STRENGTH-II Concrete Flexure	108.56	1	26.75	50
EV2	Legal	1.825	STRENGTH-I Concrete Flexure	52.46	1	26.75	50
EV3	Legal	1.183	STRENGTH-I Concrete Flexure	50.89	1	26.75	50
HL-93 (US)	Inventory	0.856	SERVICE-III PS Tensile Stress	30.82	1	26.75	50
HL-93 (US)	Operating	1.21	STRENGTH-I Concrete Flexure	43.57	1	26.75	50
NBF MU3	Permit	2.209	STRENGTH-II Concrete Flexure	66.28	1	26.75	50
NBF MU4	Permit	1.958	STRENGTH-II Concrete Flexure	73.83	1	32.1	60
NBF MU5a	Permit	1.452	STRENGTH-II Concrete Flexure	63.95	1	26.75	50
NBF MU5b	Permit	1.95	STRENGTH-II Concrete Flexure	86.17	1	26.75	50
NBF MU5c	Permit	1.924	STRENGTH-II Concrete Flexure	84.46	1	26.75	50
NBF MU6a	Permit	1.986	STRENGTH-II Concrete Flexure	87.8	1	26.75	50
NBF MU6b	Permit	1.746	STRENGTH-II Concrete Flexure	77.18	1	26.75	50
NBF MU6c	Permit	1.657	STRENGTH-II Concrete Flexure	73.22	1	26.75	50
NBF MU6d	Permit	1.882	STRENGTH-II Concrete Flexure	83.18	1	26.75	50
NBF SU2	Permit	2.947	STRENGTH-II Concrete Flexure	56	1	26.75	50
NBF SU3	Permit	1.834	STRENGTH-II Concrete Flexure	55.02	1	26.75	50
NBF SU4	Permit	1.397	STRENGTH-II Concrete Flexure	55.87	1	26.75	50
NBF SU5	Permit	1.291	STRENGTH-II Concrete Flexure	56.82	1	26.75	50
NBF SU6	Permit	1.343	STRENGTH-II Concrete Flexure	59.08	1	26.75	50
Ocean	Permit	1.451	STRENGTH-II Concrete Flexure	72.55	1	26.75	50
Overweight Permit	Permit	1.563	STRENGTH-II Concrete Flexure	199.33	1	26.75	50
Passenger Vehicle - 3 Tons	Legal	15.72	STRENGTH-I Concrete Flexure	47.16	1	26.75	50
School Bus - Small	Legal	9.525	STRENGTH-I Concrete Flexure	48.58	1	26.75	50
School Bus - Standard	Legal	3.52	STRENGTH-I Concrete Flexure	51.04	1	26.75	50
TDOT NBF Lane load	Legal	99	STRENGTH-I Concrete Flexure	3279.38	1	0	0
Tow 1	Permit	1.414	STRENGTH-II Concrete Flexure	60.09	1	26.75	50
Tow 2	Permit	1.451	STRENGTH-II Concrete Flexure	60.24	1	26.75	50
Tow 3	Permit	1.487	STRENGTH-II Concrete Flexure	63.22	1	26.75	50
Tow 4	Permit	1.14	STRENGTH-II Concrete Flexure	94.07	1	26.75	50
Tow 5	Permit	1.223	STRENGTH-II Concrete Flexure	100.94	1	26.75	50

Note:
"N/A" indicates not applicable
"" indicates not available**

TENNESSEE BRIDGE INSPECTION PROGRAM
SUMMARY OF EVALUATION

REV. 03-05-2003

BRIDGE ID NO: 94I00650003 LOCATION NO: 94 - 01928 - 0.97

(6A) CROSSING: NFA 1928 / I65

(505) METHOD OF ANALYSIS: LOAD RESISTANCE FACTOR METHOD - RF

(548) RATING BASED ON: AASHTOWare Bridge Rating

LOAD RATINGS IN TONS

INVENTORY (503)	H	14	(518B) HS/HL93	13
OPERATING (504)	H	35	(519) HS/HL93	33
REQ. POSTING:		40		40

(549) EVALUATOR: JB

(522) EVAL. DATE: 8/24/2021

LAST UPDATED BY: BAJAJ

(29) ADT: 3,133 (30) ADT YR: 2020

(100) STRAHNET ROUTE: NO

(19) DETOUR LENGTH: 16 KM

(520) VC OVER RDWY: 99.99 METERS

CONDITION RATINGS

(58) DECK RATING:	7
(59) SUPERSTRUCTURE RATING:	5
(60) SUBSTRUCTURE RATING:	7
(61) CHANNEL PROTECTION:	N
(62) CULVERT RATING:	N
(113A) NBIS SCOUR CODE:	N
(113B) TDOT SCOUR CODE:	

APPRAISAL RATINGS

(67) STRUCTURAL EVALUATION:	3
(68) DECK GEOMETRY:	3
(69) UNDER CLEARANCE:	5
(70) BRIDGE POSTING:	5
(71) WATERWAY ADEQUACY:	N
(72) APPROACH RDWY ALIGNMENT:	8

CODE VALUES

N - NOT APPLICABLE
9 - EXCELLENT CONDITION
8 - VERY GOOD CONDITION
7 - GOOD CONDITION
6 - SATISFACTORY
5 - FAIR CONDITION
4 - POOR CONDITION
3 - SERIOUS CONDITION
2 - CRITICAL CONDITION
1 - FAILURE IS IMMINENT
0 - FAILED CONDITION

OTHER RATING ITEMS

(521) OVERALL CONDITION:	F
(513) TEXTURE COAT RATING:	N
(514) PAINT CONDITION RATING:	N
(41) WEIGHT POSTING CODE:	P

(36) TRAFFIC SAFETY FEATURES: 1 0 0 0

(525) REPAIR LIST NO: N

COMMENTS

THIS STRUCTURE WAS CHECKED IN RESPONSE TO THE NEW ANNUAL OVERLOAD PERMIT SPECIFICATIONS. A 40 TON WEIGHT POSTING IS NEEDED. DETERMINED BY VIRTIS ANALYSIS.
2021.08.24: LOAD RATING CALCULATIONS ARE DONE ON AASHTOWARE BRR. A 40 TON POSTING WILL REMAIN ON THE BRIDGE.

(502) SUFF. RATING: 25.5

(528) STR. DEFICIENT: NO

(529) FUNC. OBSOLETE: YES

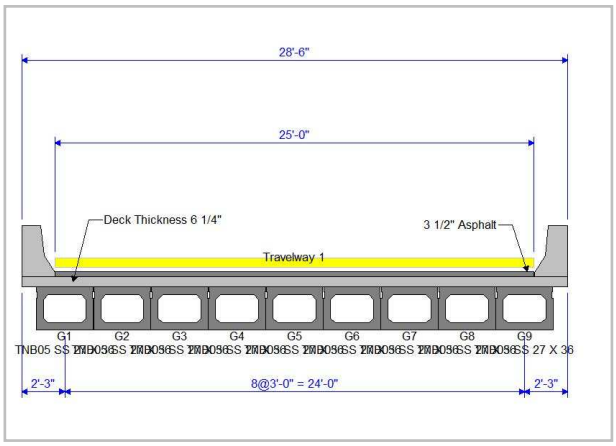
Load Rating Assumptions and QC / QA Checklist - Calculations

Bridge ID 94I00650003 Bridge Location 94-1928-0.97

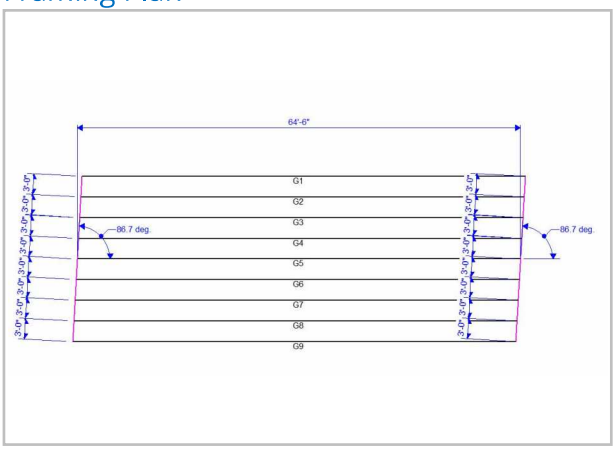
Load Rating Date 8/24/21 Inspection Date 2/3/21 Current ADTT Considered ☑ 81

Plans Set K-4-151 BR-35-57

Cross Section



Framing Plan



		Jatin Bajaj Evaluator	Chris McDonald QC	Tony Halwani QA
Dimensions match plans & field conditions		☑	☑	☑
Condition Assumed for Load rating	Fair (5)		☑	☑
Deterioration/Damage Captured	N/A		☑	☑
Shear Considered		☑	☑	☑
Rails Distribution	Evenly		☑	☑
Asphalt Thickness (inches)	3.50		☑	☑
Asphalt Considered Field Verified	No		☑	☑
Distribution Factors Calc Method	AASHTOWare		☑	☑
Impact Factor	33%		☑	☑
AASHTO Trucks & TDOT Trucks Rated	Yes		☑	☑

Comments

Weight Posting Analysis

Bridge ID: 94I00650003

August 24, 2021

Live Load	Rating Level	Rating Factor	Weight (Tons)	Safe Posting Load (Tons)
H 15-44	Inventory	0.885	15	12.5
H 15-44	Operating	2.350	15	N/A
School Bus - Standard	Legal	2.799	14.5	N/A
Type 3	Legal	1.653	25	N/A
Type 3-3	Legal	1.596	40	N/A
Type 3S2	Legal	1.558	36	N/A
SU7	Legal	1.095	38.75	N/A
SU6	Legal	1.194	34.75	N/A
SU5	Legal	1.331	31	N/A
SU4	Legal	1.463	27	N/A
Gravel Truck	Legal	1.109	37	N/A
Annual Permit 1	Permit	1.104		N/A
Annual Permit 2	Permit	0.873		40

Actual Weight Posting Values ----------	**Gross**	40	**Tons**
	2 Axles	N/A	**Tons**
	3+ Axles	N/A	**Tons**

Route Type--------- Local

Determined By: Jatin Bajaj

Approved By: Tony Halwani

Bridge Name: Thompson's Station Rd / I-65
NBI Structure ID: 94I00650003
Bridge ID: 94I00650003

Analyzed By: bridge_rating
Analyze Date: Tuesday, August 24, 2021 09:19:50
Analysis Engine: Legacy AASHTO LRFR Engine Version 6.8.4.3001
Analysis Preference Setting: None

Report By: Bridge_rating
Report Date: Tuesday, August 24, 2021 09:21:54

Structure Definition Name: 52' Span
Member Name: G1
Member Alternative Name: G1

Load and Resistance Factor Rating Summary

Girder Summary

Live Load		Rating Factor	Controls	Capacity (Ton)	Span	Location (ft)	Percent	Impact	Lane
EV2	Legal	1.611	STRENGTH-I Concrete Flexure	46.32	1	25.25	50.0	As Requested	As Requested
EV3	Legal	1.043	STRENGTH-I Concrete Flexure	44.83	1	25.25	50.0	As Requested	As Requested
H 15-44	Inventory	1.839	SERVICE-III PS Tensile Stress	27.58	1	25.25	50.0	As Requested	As Requested
H 15-44	Operating	2.515	STRENGTH-I Concrete Flexure	37.73	1	25.25	50.0	As Requested	As Requested
HL-93 (US)	Inventory	0.673	STRENGTH-I Concrete Shear	24.22	1	10.10	20.0	As Requested	As Requested
HL-93 (US)	Operating	1.083	STRENGTH-I Concrete Flexure	38.97	1	25.25	50.0	As Requested	As Requested
HS 20-44	Inventory	0.984	SERVICE-III PS Tensile Stress	35.44	1	25.25	50.0	As Requested	As Requested
HS 20-44	Operating	1.347	STRENGTH-I Concrete Flexure	48.48	1	25.25	50.0	As Requested	As Requested
Lane-Type Legal Load	Legal	99.000	STRENGTH-I Concrete Flexure	3960.00	1	0.00	0.0	As Requested	As Requested
SU4	Legal	1.606	STRENGTH-I Concrete Flexure	43.36	1	25.25	50.0	As Requested	As Requested
SU5	Legal	1.484	STRENGTH-I Concrete Flexure	46.00	1	25.25	50.0	As Requested	As Requested
SU6	Legal	1.333	STRENGTH-I Concrete Flexure	46.32	1	25.25	50.0	As Requested	As Requested
SU7	Legal	1.234	STRENGTH-I Concrete Flexure	47.81	1	25.25	50.0	As Requested	As Requested
Type 3	Legal	1.843	STRENGTH-I Concrete Flexure	46.08	1	25.25	50.0	As Requested	As Requested

Type 3-3	Legal	2.145	STRENGTH-I Concrete Shear	85.80	1	2.40	4.7	As Requested	As Requested
Type 3S2	Legal	2.014	STRENGTH-I Concrete Flexure	72.50	1	25.25	50.0	As Requested	As Requested
>200' Spans Only: Gravel Truck + Lane	Legal	99.000	STRENGTH-I Concrete Flexure	2747.25	1	0.00	0.0	As Requested	As Requested
Annual Permit 1	Permit	1.351	STRENGTH-II Concrete Flexure	111.46	1	25.25	50.0	As Requested	As Requested
Annual Permit 2	Permit	1.192	STRENGTH-II Concrete Flexure	98.35	1	25.25	50.0	As Requested	As Requested
Gravel Truck	Legal	1.234	STRENGTH-I Concrete Flexure	45.66	1	25.25	50.0	As Requested	As Requested
Overweight Permit	Permit	1.276	STRENGTH-II Concrete Flexure	162.75	1	25.25	50.0	As Requested	As Requested
Passenger Vehicle - 3 Tons	Legal	13.771	STRENGTH-I Concrete Flexure	41.31	1	25.25	50.0	As Requested	As Requested
School Bus - Small	Legal	8.362	STRENGTH-I Concrete Flexure	42.64	1	25.25	50.0	As Requested	As Requested
School Bus - Standard	Legal	3.101	STRENGTH-I Concrete Flexure	44.97	1	25.25	50.0	As Requested	As Requested

Note:
"N/A" indicates not applicable
"**" indicates not available
Bridge Name: Thompson's Station Rd / I-65
NBI Structure ID: 94I00650003
Bridge ID: 94I00650003

Analyzed By: bridge_rating
Analyze Date: Tuesday, August 24, 2021 09:19:50
Analysis Engine: Legacy AASHTO LRFR Engine Version 6.8.4.3001
Analysis Preference Setting: None

Report By: Bridge_rating
Report Date: Tuesday, August 24, 2021 09:21:56

Structure Definition Name: 52' Span
Member Name: G2
Member Alternative Name: G2

Load and Resistance Factor Rating Summary

Girder Summary

Live Load	Rating Factor	Controls	Capacity (Ton)	Span	Location (ft)	Percent	Impact	Lane
		STRENGTH-I					As	As

EV2	Legal	1.862	Concrete Flexure	53.54	1	25.25	50.0	Requested	Requested
EV3	Legal	1.205	STRENGTH-I Concrete Flexure	51.81	1	25.25	50.0	As Requested	As Requested
H 15-44	Inventory	2.243	STRENGTH-I Concrete Flexure	33.64	1	25.25	50.0	As Requested	As Requested
H 15-44	Operating	2.907	STRENGTH-I Concrete Flexure	43.61	1	25.25	50.0	As Requested	As Requested
HL-93 (US)	Inventory	0.965	STRENGTH-I Concrete Flexure	34.75	1	25.25	50.0	As Requested	As Requested
HL-93 (US)	Operating	1.251	STRENGTH-I Concrete Flexure	45.05	1	25.25	50.0	As Requested	As Requested
HS 20-44	Inventory	1.201	STRENGTH-I Concrete Flexure	43.22	1	25.25	50.0	As Requested	As Requested
HS 20-44	Operating	1.556	STRENGTH-I Concrete Flexure	56.03	1	25.25	50.0	As Requested	As Requested
Lane-Type Legal Load	Legal	99.000	STRENGTH-I Concrete Flexure	3960.00	1	0.00	0.0	As Requested	As Requested
SU4	Legal	1.856	STRENGTH-I Concrete Flexure	50.11	1	25.25	50.0	As Requested	As Requested
SU5	Legal	1.715	STRENGTH-I Concrete Flexure	53.17	1	25.25	50.0	As Requested	As Requested
SU6	Legal	1.541	STRENGTH-I Concrete Flexure	53.53	1	25.25	50.0	As Requested	As Requested
SU7	Legal	1.426	STRENGTH-I Concrete Flexure	55.26	1	25.25	50.0	As Requested	As Requested
Type 3	Legal	2.130	STRENGTH-I Concrete Flexure	53.25	1	25.25	50.0	As Requested	As Requested
Type 3-3	Legal	2.526	STRENGTH-I Concrete Flexure	101.03	1	25.25	50.0	As Requested	As Requested
Type 3S2	Legal	2.327	STRENGTH-I Concrete Flexure	83.79	1	25.25	50.0	As Requested	As Requested
>200' Spans Only: Gravel Truck + Lane	Legal	99.000	STRENGTH-I Concrete Flexure	2747.25	1	0.00	0.0	As Requested	As Requested
Annual Permit 1	Permit	1.561	STRENGTH-II Concrete Flexure	128.82	1	25.25	50.0	As Requested	As Requested
Annual Permit 2	Permit	1.378	STRENGTH-II Concrete Flexure	113.67	1	25.25	50.0	As Requested	As Requested
Gravel Truck	Legal	1.426	STRENGTH-I Concrete Flexure	52.77	1	25.25	50.0	As Requested	As Requested
Overweight Permit	Permit	1.608	STRENGTH-II Concrete Flexure	204.98	1	25.25	50.0	As Requested	As Requested
Passenger Vehicle - 3 Tons	Legal	15.916	STRENGTH-I Concrete Flexure	47.75	1	25.25	50.0	As Requested	As Requested

School Bus - Small	Legal	9.664	STRENGTH-I Concrete Flexure	49.29	1	25.25	50.0	As Requested	As Requested
School Bus - Standard	Legal	3.584	STRENGTH-I Concrete Flexure	51.97	1	25.25	50.0	As Requested	As Requested

Note:
"N/A" indicates not applicable
"**" indicates not available
Bridge Name: Thompson's Station Rd / I-65
NBI Structure ID: 94I00650003
Bridge ID: 94I00650003

Analyzed By: bridge_rating
Analyze Date: Tuesday, August 24, 2021 09:19:50
Analysis Engine: Legacy AASHTO LRFR Engine Version 6.8.4.3001
Analysis Preference Setting: None

Report By: Bridge_rating
Report Date: Tuesday, August 24, 2021 09:21:59

Structure Definition Name: 66' Span
Member Name: G1
Member Alternative Name: G1

Load and Resistance Factor Rating Summary

			Girder Summary						
Live Load		Rating Factor	Controls	Capacity (Ton)	Span	Location (ft)	Percent	Impact	Lane
EV2	Legal	1.443	STRENGTH-I Concrete Flexure	41.48	1	32.25	50.0	As Requested	As Requested
EV3	Legal	0.942	STRENGTH-I Concrete Flexure	40.49	1	32.25	50.0	As Requested	As Requested
H 15-44	Inventory	0.885	SERVICE-III PS Tensile Stress	13.28	1	32.25	50.0	As Requested	As Requested
H 15-44	Operating	2.350	STRENGTH-I Concrete Flexure	35.25	1	32.25	50.0	As Requested	As Requested
HL-93 (US)	Inventory	0.346	SERVICE-III PS Tensile Stress	12.44	1	32.25	50.0	As Requested	As Requested
HL-93 (US)	Operating	0.918	STRENGTH-I Concrete Flexure	33.03	1	32.25	50.0	As Requested	As Requested
HS 20-44	Inventory	0.444	SERVICE-III PS Tensile Stress	15.98	1	32.25	50.0	As Requested	As Requested
HS 20-44	Operating	1.178	STRENGTH-I Concrete Flexure	42.42	1	32.25	50.0	As Requested	As Requested
Lane-Type Legal Load	Legal	99.000	STRENGTH-I Concrete Flexure	3960.00	1	0.00	0.0	As Requested	As Requested
SU4	Legal	1.463	STRENGTH-I Concrete Flexure	39.51	1	32.25	50.0	As Requested	As Requested
SU5	Legal	1.331	STRENGTH-I	41.27	1	32.25	50.0	As	As

			Concrete Flexure					Requested	Requested
SU6	Legal	1.194	STRENGTH-I Concrete Flexure	41.48	1	32.25	50.0	As Requested	As Requested
SU7	Legal	1.095	STRENGTH-I Concrete Flexure	42.44	1	32.25	50.0	As Requested	As Requested
Type 3	Legal	1.653	STRENGTH-I Concrete Flexure	41.32	1	32.25	50.0	As Requested	As Requested
Type 3-3	Legal	1.596	STRENGTH-I Concrete Shear	63.83	1	2.39	3.7	As Requested	As Requested
Type 3S2	Legal	1.558	STRENGTH-I Concrete Shear	56.07	1	2.39	3.7	As Requested	As Requested
>200' Spans Only: Gravel Truck + Lane	Legal	99.000	STRENGTH-I Concrete Flexure	2747.25	1	0.00	0.0	As Requested	As Requested
Annual Permit 1	Permit	1.104	STRENGTH-II Concrete Flexure	91.06	1	32.25	50.0	As Requested	As Requested
Annual Permit 2	Permit	0.873	STRENGTH-II Concrete Flexure	72.06	1	32.25	50.0	As Requested	As Requested
Gravel Truck	Legal	1.109	STRENGTH-I Concrete Flexure	41.04	1	32.25	50.0	As Requested	As Requested
Overweight Permit	Permit	1.039	STRENGTH-II Concrete Shear	132.45	1	2.39	3.7	As Requested	As Requested
Passenger Vehicle - 3 Tons	Legal	12.701	STRENGTH-I Concrete Flexure	38.10	1	32.25	50.0	As Requested	As Requested
School Bus - Small	Legal	7.651	STRENGTH-I Concrete Flexure	39.02	1	32.25	50.0	As Requested	As Requested
School Bus - Standard	Legal	2.799	STRENGTH-I Concrete Flexure	40.59	1	32.25	50.0	As Requested	As Requested

Note:
"N/A" indicates not applicable
"**" indicates not available
Bridge Name: Thompson's Station Rd / I-65
NBI Structure ID: 94I00650003
Bridge ID: 94I00650003

Analyzed By: bridge_rating
Analyze Date: Tuesday, August 24, 2021 09:19:50
Analysis Engine: Legacy AASHTO LRFR Engine Version 6.8.4.3001
Analysis Preference Setting: None

Report By: Bridge_rating
Report Date: Tuesday, August 24, 2021 09:22:01

Structure Definition Name: 66' Span
Member Name: G2
Member Alternative Name: G2

Load and Resistance Factor Rating Summary

			Girder Summary						
Live Load		Rating Factor	Controls	Capacity (Ton)	Span	Location (ft)	Percent	Impact	Lane
EV2	Legal	1.739	STRENGTH-I Concrete Flexure	50.00	1	32.25	50.0	As Requested	As Requested
EV3	Legal	1.135	STRENGTH-I Concrete Flexure	48.81	1	32.25	50.0	As Requested	As Requested
H 15-44	Inventory	1.356	SERVICE-III PS Tensile Stress	20.34	1	32.25	50.0	As Requested	As Requested
H 15-44	Operating	2.832	STRENGTH-I Concrete Flexure	42.49	1	32.25	50.0	As Requested	As Requested
HL-93 (US)	Inventory	0.529	SERVICE-III PS Tensile Stress	19.06	1	32.25	50.0	As Requested	As Requested
HL-93 (US)	Operating	1.106	STRENGTH-I Concrete Flexure	39.82	1	32.25	50.0	As Requested	As Requested
HS 20-44	Inventory	0.680	SERVICE-III PS Tensile Stress	24.48	1	32.25	50.0	As Requested	As Requested
HS 20-44	Operating	1.420	STRENGTH-I Concrete Flexure	51.13	1	32.25	50.0	As Requested	As Requested
Lane-Type Legal Load	Legal	99.000	STRENGTH-I Concrete Flexure	3960.00	1	0.00	0.0	As Requested	As Requested
SU4	Legal	1.764	STRENGTH-I Concrete Flexure	47.62	1	32.25	50.0	As Requested	As Requested
SU5	Legal	1.605	STRENGTH-I Concrete Flexure	49.74	1	32.25	50.0	As Requested	As Requested
SU6	Legal	1.439	STRENGTH-I Concrete Flexure	49.99	1	32.25	50.0	As Requested	As Requested
SU7	Legal	1.320	STRENGTH-I Concrete Flexure	51.16	1	32.25	50.0	As Requested	As Requested
Type 3	Legal	1.992	STRENGTH-I Concrete Flexure	49.80	1	32.25	50.0	As Requested	As Requested
Type 3-3	Legal	2.029	STRENGTH-I Concrete Flexure	81.15	1	32.25	50.0	As Requested	As Requested
Type 3S2	Legal	1.902	STRENGTH-I Concrete Flexure	68.49	1	32.25	50.0	As Requested	As Requested
>200' Spans Only: Gravel Truck + Lane	Legal	99.000	STRENGTH-I Concrete Flexure	2747.25	1	0.00	0.0	As Requested	As Requested
Annual Permit 1	Permit	1.330	STRENGTH-II Concrete Flexure	109.76	1	32.25	50.0	As Requested	As Requested
Annual Permit 2	Permit	1.053	STRENGTH-II Concrete Flexure	86.86	1	32.25	50.0	As Requested	As Requested
Gravel			STRENGTH-I					As	As

Truck	Legal	1.337	Concrete Flexure	49.47	1	32.25	50.0	Requested	Requested
Overweight Permit	Permit	1.393	STRENGTH-II Concrete Shear	177.65	1	2.52	3.9	As Requested	As Requested
Passenger Vehicle - 3 Tons	Legal	15.309	STRENGTH-I Concrete Flexure	45.93	1	32.25	50.0	As Requested	As Requested
School Bus - Small	Legal	9.222	STRENGTH-I Concrete Flexure	47.03	1	32.25	50.0	As Requested	As Requested
School Bus - Standard	Legal	3.374	STRENGTH-I Concrete Flexure	48.92	1	32.25	50.0	As Requested	As Requested

Note:
"N/A" indicates not applicable
"**" indicates not available
Bridge Name: Thompson's Station Rd / I-65
NBI Structure ID: 94I00650003
Bridge ID: 94I00650003

Analyzed By: bridge_rating
Analyze Date: Tuesday, August 24, 2021 09:19:50
Analysis Engine: Legacy AASHTO LRFR Engine Version 6.8.4.3001
Analysis Preference Setting: None

Report By: Bridge_rating
Report Date: Tuesday, August 24, 2021 09:22:04

Structure Definition Name: 55' Span
Member Name: G1
Member Alternative Name: 1

Load and Resistance Factor Rating Summary

Girder Summary

Live Load		Rating Factor	Controls	Capacity (Ton)	Span	Location (ft)	Percent	Impact	Lane
EV2	Legal	1.575	STRENGTH-I Concrete Flexure	45.29	1	26.75	50.0	As Requested	As Requested
EV3	Legal	1.022	STRENGTH-I Concrete Flexure	43.94	1	26.75	50.0	As Requested	As Requested
H 15-44	Inventory	1.603	SERVICE-III PS Tensile Stress	24.04	1	26.75	50.0	As Requested	As Requested
H 15-44	Operating	2.488	STRENGTH-I Concrete Flexure	37.31	1	26.75	50.0	As Requested	As Requested
HL-93 (US)	Inventory	0.653	STRENGTH-I Concrete Shear	23.49	1	16.05	30.0	As Requested	As Requested
HL-93 (US)	Operating	1.045	STRENGTH-I Concrete Flexure	37.62	1	26.75	50.0	As Requested	As Requested
HS 20-44	Inventory	0.843	SERVICE-III PS Tensile Stress	30.35	1	26.75	50.0	As Requested	As Requested
			STRENGTH-I					As	As

HS 20-44	Operating	1.308	Concrete Flexure	47.10	1	26.75	50.0	Requested	Requested
Lane-Type Legal Load	Legal	99.000	STRENGTH-I Concrete Flexure	3960.00	1	0.00	0.0	As Requested	As Requested
SU4	Legal	1.578	STRENGTH-I Concrete Flexure	42.59	1	26.75	50.0	As Requested	As Requested
SU5	Legal	1.452	STRENGTH-I Concrete Flexure	45.00	1	26.75	50.0	As Requested	As Requested
SU6	Legal	1.303	STRENGTH-I Concrete Flexure	45.29	1	26.75	50.0	As Requested	As Requested
SU7	Legal	1.204	STRENGTH-I Concrete Flexure	46.64	1	26.75	50.0	As Requested	As Requested
Type 3	Legal	1.803	STRENGTH-I Concrete Flexure	45.07	1	26.75	50.0	As Requested	As Requested
Type 3-3	Legal	2.003	STRENGTH-I Concrete Shear	80.14	1	2.38	4.5	As Requested	As Requested
Type 3S2	Legal	1.893	STRENGTH-I Concrete Shear	68.16	1	2.38	4.5	As Requested	As Requested
>200' Spans Only: Gravel Truck + Lane	Legal	99.000	STRENGTH-I Concrete Flexure	2747.25	1	0.00	0.0	As Requested	As Requested
Annual Permit 1	Permit	1.303	STRENGTH-II Concrete Flexure	107.51	1	26.75	50.0	As Requested	As Requested
Annual Permit 2	Permit	1.136	STRENGTH-II Concrete Flexure	93.73	1	26.75	50.0	As Requested	As Requested
Gravel Truck	Legal	1.208	STRENGTH-I Concrete Flexure	44.69	1	26.75	50.0	As Requested	As Requested
Overweight Permit	Permit	1.239	STRENGTH-II Concrete Flexure	157.94	1	26.75	50.0	As Requested	As Requested
Passenger Vehicle - 3 Tons	Legal	13.572	STRENGTH-I Concrete Flexure	40.72	1	26.75	50.0	As Requested	As Requested
School Bus - Small	Legal	8.223	STRENGTH-I Concrete Flexure	41.94	1	26.75	50.0	As Requested	As Requested
School Bus - Standard	Legal	3.039	STRENGTH-I Concrete Flexure	44.06	1	26.75	50.0	As Requested	As Requested

Note:
"N/A" indicates not applicable
"**" indicates not available
Bridge Name: Thompson's Station Rd / I-65
NBI Structure ID: 94I00650003
Bridge ID: 94I00650003

Analyzed By: bridge_rating
Analyze Date: Tuesday, August 24, 2021 09:19:50
Analysis Engine: Legacy AASHTO LRFR Engine Version 6.8.4.3001

Analysis Preference Setting: None

Report By: Bridge_rating
Report Date: Tuesday, August 24, 2021 09:22:06

Structure Definition Name: 55' Span
Member Name: G2
Member Alternative Name: G2

Load and Resistance Factor Rating Summary

Girder Summary

Live Load		Rating Factor	Controls	Capacity (Ton)	Span	Location (ft)	Percent	Impact	Lane
EV2	Legal	1.825	STRENGTH-I Concrete Flexure	52.46	1	26.75	50.0	As Requested	As Requested
EV3	Legal	1.184	STRENGTH-I Concrete Flexure	50.89	1	26.75	50.0	As Requested	As Requested
H 15-44	Inventory	2.038	SERVICE-III PS Tensile Stress	30.57	1	26.75	50.0	As Requested	As Requested
H 15-44	Operating	2.881	STRENGTH-I Concrete Flexure	43.22	1	26.75	50.0	As Requested	As Requested
HL-93 (US)	Inventory	0.856	SERVICE-III PS Tensile Stress	30.82	1	26.75	50.0	As Requested	As Requested
HL-93 (US)	Operating	1.210	STRENGTH-I Concrete Flexure	43.58	1	26.75	50.0	As Requested	As Requested
HS 20-44	Inventory	1.072	SERVICE-III PS Tensile Stress	38.59	1	26.75	50.0	As Requested	As Requested
HS 20-44	Operating	1.516	STRENGTH-I Concrete Flexure	54.56	1	26.75	50.0	As Requested	As Requested
Lane-Type Legal Load	Legal	99.000	STRENGTH-I Concrete Flexure	3960.00	1	0.00	0.0	As Requested	As Requested
SU4	Legal	1.827	STRENGTH-I Concrete Flexure	49.34	1	26.75	50.0	As Requested	As Requested
SU5	Legal	1.682	STRENGTH-I Concrete Flexure	52.13	1	26.75	50.0	As Requested	As Requested
SU6	Legal	1.510	STRENGTH-I Concrete Flexure	52.46	1	26.75	50.0	As Requested	As Requested
SU7	Legal	1.394	STRENGTH-I Concrete Flexure	54.02	1	26.75	50.0	As Requested	As Requested
Type 3	Legal	2.088	STRENGTH-I Concrete Flexure	52.21	1	26.75	50.0	As Requested	As Requested
Type 3-3	Legal	2.370	STRENGTH-I Concrete Flexure	94.81	1	26.75	50.0	As Requested	As Requested
Type 3S2	Legal	2.216	STRENGTH-I Concrete Flexure	79.79	1	26.75	50.0	As Requested	As Requested
>200' Spans Only:	Legal	99.000	STRENGTH-I	2747.25	1	0.00	0.0	As	As

Gravel Truck + Lane			Concrete Flexure					Requested	Requested
Annual Permit 1	Permit	1.509	STRENGTH-II Concrete Flexure	124.53	1	26.75	50.0	As Requested	As Requested
Annual Permit 2	Permit	1.316	STRENGTH-II Concrete Flexure	108.57	1	26.75	50.0	As Requested	As Requested
Gravel Truck	Legal	1.399	STRENGTH-I Concrete Flexure	51.77	1	26.75	50.0	As Requested	As Requested
Overweight Permit	Permit	1.564	STRENGTH-II Concrete Flexure	199.37	1	26.75	50.0	As Requested	As Requested
Passenger Vehicle - 3 Tons	Legal	15.721	STRENGTH-I Concrete Flexure	47.16	1	26.75	50.0	As Requested	As Requested
School Bus - Small	Legal	9.525	STRENGTH-I Concrete Flexure	48.58	1	26.75	50.0	As Requested	As Requested
School Bus - Standard	Legal	3.520	STRENGTH-I Concrete Flexure	51.04	1	26.75	50.0	As Requested	As Requested

Note:
"N/A" indicates not applicable
"**" indicates not available

Username: Bridge_rating
Date: Tuesday, August 24, 2021 10:21:59

Bridge ID 94I00650003 Thompson's Station Rd / I-65

NBI Structure ID (8): 94I00650003
Description:

Description
Location:
Total Length: *(ft)*
Facility Carried:
Route Number:
Feature Intersected:
Mi Post: *(mi)*
Units: US Customary
Year Built: 1961
Recent ADTT: 81
District:
County: Williamson
Owner:
National Highway System:
Functional Class:
Global Reference Point
X Coordinate: 0.000 *(ft)*
Y Coordinate: 0.000 *(ft)*
Elevation: *(ft)*
Longitude: *(Degrees)*
Latitude: *(Degrees)*

Materials

No steel materials.

Concrete

Name: **Class A - f'c is 3 ksi**
Description: Standard 3 ksi Class A concrete

Specified compressive strength at 28 days (f'c):	3.000 *(ksi)*
Initial specified compressive strength (f'ci):	2.500 *(ksi)*
Coefficient of thermal expansion:	0.0000060000 *(1/F)*
Density (for dead loads):	0.150 *(kcf)*
Density (for modulus of elasticity):	0.145 *(kcf)*
Std Modulus of elasticity (Ec):	3155.92 *(ksi)*
LRFD Modulus of elasticity (Ec):	3155.92 *(ksi)*
Poisson's ratio:	0.200
Modulus of rupture:	0.410 *(ksi)*
Shear factor:	1.000
Composition of concrete:	Normal
Std Initial modulus of elasticity (Eci):	2850.00 *(ksi)*
LRFD Initial modulus of elasticity (Eci):	2850.00 *(ksi)*

Splitting tensile strength (fct):		*(ksi)*

Name:	**5 ksi f'c**
Description:	5 ksi f'c and 4 ksi f'ci

Specified compressive strength at 28 days (f'c):	5.000	*(ksi)*
Initial specified compressive strength (f'ci):	4.000	*(ksi)*
Coefficient of thermal expansion:	0.0000060000	*(1/F)*
Density (for dead loads):	0.150	*(kcf)*
Density (for modulus of elasticity):	0.150	*(kcf)*
Std Modulus of elasticity (Ec):	4286.83	*(ksi)*
LRFD Modulus of elasticity (Ec):	4286.83	*(ksi)*
Poisson's ratio:	0.200	
Modulus of rupture:	0.537	*(ksi)*
Shear factor:	1.000	
Composition of concrete:	Normal	
Std Initial modulus of elasticity (Eci):	3834.25	*(ksi)*
LRFD Initial modulus of elasticity (Eci):	3834.25	*(ksi)*
Splitting tensile strength (fct):		*(ksi)*

Reinforcing Steel

Name:	**Grade 33**
Description:	Reinforcing Steel 1937 to 1962

Specified yield strength (Fy):	33.000	*(ksi)*
Modulus of elasticity (Es):	29000.00	*(ksi)*
Ultimate strength (Fu):	60.000	*(ksi)*
Type:	Plain	

Name:	**Grade 40**
Description:	40 ksi reinforcing steel

Specified yield strength (Fy):	40.000	*(ksi)*
Modulus of elasticity (Es):	29000.00	*(ksi)*
Ultimate strength (Fu):	70.000	*(ksi)*
Type:	Plain	

Prestressing Strand

Name:	**3/8" (7W-250) SR**
Description:	Stress relieved 3/8"/Seven Wire/fpu = 250

Specified yield strength (Fy):	212.500	*(ksi)*
Ultimate Tensile strength (Fu):	250.000	*(ksi)*
Modulus of elasticity (Es):	28500.00	*(ksi)*
Load per unit length:	0.272	*(lb/ft)*
Cross sectional area (A):	0.080	*(in^2)*
Nominal diameter (d):	0.3750	*(in)*
Transfer length (Std):	18.7500	*(in)*
Transfer length (LRFD):	22.5000	*(in)*
Type:	Stress Relieved	
Epoxy coated:	FALSE	

No timber materials.

Beam Shapes

Steel Shapes

No steel shapes.

Prestressed Shapes

No prestressed I shapes.

Prestressed Box Shapes

Name:	**TNB05 SS 27 X 36**	
Description:	SIDE BY SIDE BOX	
Type:		Rectangular Void
Nominal Depth:		27.0000 *(in)*
Depth (d):		27.0000 *(in)*
Top flange width:		35.2500 *(in)*
Bottom flange width:		36.0000 *(in)*
Top flange thickness:		5.0000 *(in)*
Bottom flange thickness:		4.5000 *(in)*
Wall thickness:		4.5000 *(in)*
Top fillet height:		3.0000 *(in)*
Top fillet width:		3.0000 *(in)*
Bottom fillet height:		3.0000 *(in)*
Bottom fillet width:		3.0000 *(in)*
Vertical location of shear key:		3.0000 *(in)*
Shear key height:		4.0000 *(in)*
Shear key depth:		0.3750 *(in)*
Nominal load:		539.000 *(lb/ft)*
Cross sectional area:		517.500 *(in^2)*
Ixx:		48024.000 *(in^4)*
CG from bottom:		13.6193 *(in)*
Bottom Sxx:		3500.000 *(in^3)*
Top Sxx:		3616.000 *(in^3)*
Volume/Surface Ratio:		3.068 *(in)*
Half Depth Area for Positive Flexure:		252.000 *(in^2)*
Half Depth Area for Negative Flexure:		259.176 *(in^2)*
St. Venant's Torsional Constant:		13806.478 *(in^4)*

Strand Grid

Row Number	Number of Strands	Vertical Location *(in)*	Horizontal Spacing *(in)*
1	23	1.7500	1.5000
2	23	3.2500	1.5000
3	4	4.7500	1.5000
4	4	6.2500	1.5000

No prestressed U shapes.

No prestressed tee shapes.

Timber Shapes

No timber shapes.

Appurtenances

Parapets

Name:	**Jersey Barrier**	
Description:	Standard New Jersey Barrier	
X1:		12.0000 *(in)*
X2:		2.0000 *(in)*
X3:		7.0000 *(in)*
Y1:		0.0000 *(in)*
Y2:		19.0000 *(in)*
Y3:		10.0000 *(in)*
Y4:		3.0000 *(in)*
Distance to Center of Gravity of Load:		*(in)*
Additional Load:		*(kip/ft)*
Concrete Density:		0.1500 *(kcf)*

No concrete medians.

No concrete generics.

Railings

Name:	**H-5-110**	
Description:	1960 CONCRETE HANDRAIL	
Effective Wind Height:		33.0000 *(in)*
Railing Load:		0.425 *(kip/ft)*
Distance From Edge to Centroid:		11.0000 *(in)*
Width:		27.0000 *(in)*

Impact

Standard Impact Factor

Type:	Standard - AASHTO

LRFD Dynamic Load Allowance

Fatigue and fracture limit states:	15.0 *(%)*
All other limit states:	33.0 *(%)*

Factors

No LFD Factors specified.

No LRFD Factors specified.

Bridge Alternatives Alt

Reference Line
Reference Line Length: *(ft)*
Starting Station: *(ft)*
Bearing: N 90^ 0' 0.00" E
Global Positioning
Distance: 0.000 *(ft)*
Offset: 0.000 *(ft)*
Elevation: *(ft)*

Structures
Name: Superstructure 1
Description:

Structure Alternatives
Name: Superstructure Alt 1
Description:
Superstructure Definition: 52' Span

Structures
Name: Superstructure 2
Description:

Structure Alternatives
Name: Superstructure Alt 2
Description:
Superstructure Definition: 66' Span

Structures
Name: Superstructure 3
Description:

Structure Alternatives
Name: Superstructure Alt 3
Description:
Superstructure Definition: 55' Span

Superstructure Definition 52' Span

Definition
Units: US Customary
Number of spans: 1
Number of girders: 9

Span	Length *(ft)*
1	50.5000

Frame Structure Simplified Definition:

Support	Frame Connection
1	
2	

Girder Spacing Display Type: Perpendicular
Average Humidity: 60.000 *(%)*
Analysis
Default Library Factors
Factor Override
Analysis Module
Analysis Method: ASD
Analysis Module:
Analysis Module Component:
Properties:

Analysis Method: LFD
Analysis Module:
Analysis Module Component:
Properties:

Analysis Method: LRFD
Analysis Module:
Analysis Module Component:
Properties:

Analysis Method: LRFR
Analysis Module:
Analysis Module Component:
Properties:

Analysis Method: Distribution Factors
Analysis Module:
Analysis Module Component:
Properties:

Default rating method: LFD

Impact
Standard Impact Factor
Type: Standard - AASHTO
LRFD Dynamic Load Allowance
Fatigue and fracture limit states: 15.0 *(%)*
All other limit states: 33.0 *(%)*

Structure Framing Plan Details
Layout

Skew

Support	*(Degrees)*
1	3.3000
2	3.3000

Girder Spacing Orientation: Perpendicular

Girder Bay	Girder Spacing Start *(ft)*	End *(ft)*
1	3.0000	3.0000
2	3.0000	3.0000
3	3.0000	3.0000
4	3.0000	3.0000
5	3.0000	3.0000
6	3.0000	3.0000
7	3.0000	3.0000
8	3.0000	3.0000

Diaphragms

Girder Bay 1
Girder Bay 2
Girder Bay 3
Girder Bay 4
Girder Bay 5
Girder Bay 6
Girder Bay 7
Girder Bay 8

Structure Typical Section

Deck

Left start width: 14.25 *(ft)*
Left end width: 14.25 *(ft)*
Right start width: 14.25 *(ft)*
Right end width: 14.25 *(ft)*
Left start overhang: 2.25 *(ft)*
Left end overhang: 2.25 *(ft)*

Deck (Cont'd)

Deck concrete: Class A - f'c is 3 ksi
Total deck thickness: 6.2500 *(in)*
Deck crack control parameter: *(kip/in)*
Sustained modular ratio factor: 3.000

Parapet

Name	Load Case	Measure To	Measured From	Distance At Start	Distance At End	Front Face Orientation
Jersey Ba...	DC2	Back	Left Ed...	0.00	0.00	Right
Jersey Ba...	DC2	Back	Right E...	0.00	0.00	Left

Lane Position

Offset Left Start: -12.50 *(ft)*
Offset Left End: -12.50 *(ft)*
Offset Right Start: 12.50 *(ft)*

Offset Right End: 12.50 *(ft)*

Wearing Surface

Wearing surface material: Asphalt
Description:
Wearing surface thickness: 3.5000 *(in)*
Wearing surface density: 144.000 *(pcf)*
Load case: DW

Load Case Description

Load Case Name	Description	Stage	Type	Time *(Days)*
DC1	DC acting on non-comp...	Non-composite (Sta...	D,DC	
DC2	DC acting on long-ter...	Composite (long te...	D,DC	
DW	DW acting on long-ter...	Composite (long te...	D,DW	
SIP Forms	Weight due to stay-in...	Non-composite (Sta...	D,DC	

Superstructure Loads

DL Distribution

Stage 1 Dead Load Distribution: Tributary Area
Stage 2 Dead Load Distribution: Uniformly to All Girders

Stiffener Definitions

Stress Limits

Name: **SL**
Description:
Concrete material: 5 ksi f'c
Initial allowable tension (LFD): 0.190 *(ksi)*
Initial allowable compression (LFD): 2.400 *(ksi)*
Final allowable slab compression (LFD): *(ksi)*
Final allowable tension (LFD): 0.425 *(ksi)*
Final allowable DL compression (LFD): 2.000 *(ksi)*
Final allowable compression (LFD): 3.000 *(ksi)*
Final allowable compression (LL + 1/2(Pe+DL)) (LFD): 2.000 *(ksi)*
Initial allowable tension (LRFD): 0.190 *(ksi)*
Initial allowable compression (LRFD): 2.600 *(ksi)*
Final allowable slab compression (LRFD): *(ksi)*
Final allowable tension (LRFD): 0.425 *(ksi)*
Final allowable DL compression (LRFD): 2.250 *(ksi)*
Final allowable compression (LRFD): 3.000 *(ksi)*
Final allowable compression (LL + 1/2(Pe+DL)) (LRFD): 2.000 *(ksi)*

Prestress Properties

Name: **PP**

General Pretress Data

Prestressing Strand: 3/8" (7W-250) SR
Loss Method: AASHTO Approximate
Jacking stress ratio: 0.700
Transfer stress ratio:
Transfer time: 24.0 *(Hours)*

AASHTO - Dead load percent: 0.0 *(%)*

Loss Data - PCI

PCI - Maturity coefficient:
PCI - Ultimate creep loss: *(ksi)*
PCI - Ultimate shrinkage loss: *(ksi)*
PCI - Additional time 1: *(Days)*
PCI - Additional time 2: *(Days)*
PCI - Additional time 3: *(Days)*
PCI - Additional time 4: *(Days)*
PCI - Additional time 5: *(Days)*
PCI - Additional time 6: *(Days)*
PCI - Additional time 7: *(Days)*
PCI - Additional time 8: *(Days)*
PCI - Additional time 9: *(Days)*
PCI - Additional time 10: *(Days)*

Loss Data - Lump-sum

Lump-sum - Composite loss: *(ksi)*
Lump-sum - Continuous loss: *(ksi)*
Lump-sum - Final loss: *(ksi)*

Shear Reinforcement Definitions - Vertical

Name: **4 Bar**
Vertical Reinforcement: Grade 40
Vertical Rebar: 4
Number of legs (Vertical): 2.00
Inclination angle alpha (Vertical): 90.0 *(Degrees)*

No horizontal shear reinforcement definitions.

Member G1

Link with: None
Description:

Existing: G1 -
Current: G1 -
Number of Spans: 1

Span Number	Span Length *(ft)*
1	50.500000

Support	Frame Connection
1	
2	

Pedestrian load: *(lb/ft)*

Member Loads

Member Loads - Settlement

Support Number	Horizontal *(in)*	Vertical *(in)*	Rotational *(Radians)*	Load Case Name
1				
2				

Support Constraints

General

Support Number	Support Type	X Translation	Y Translation	Z Rotation
1	Pinned	Fixed	Fixed	Free
2	Roller	Free	Fixed	Free

Elastic

Support Number	X Translation *(kip/ft)*	Y Translation *(kip/ft)*	Z Rotation *(kip-in/rad)*	Override Computed Z Rotation
1				
2				

Member Alternative G1

Description:

Description

Material Type: Prestressed Concrete
Girder Type: PS Precast Box
Member units: US Customary
Girder property input method: Schedule based
Additional Self Load: *(kip/ft)*
Additional Self Load %: *(%)*

Analysis Module

Analysis Method: ASD
Analysis Module: Legacy AASHTO ASD
Analysis Module Component:
Properties:

Analysis Method: LFD
Analysis Module: Legacy AASHTO LFD
Analysis Module Component:
Properties:

Analysis Method: LRFD
Analysis Module: Legacy AASHTO LRFD
Analysis Module Component:
Properties:

Analysis Method: LRFR
Analysis Module: Legacy AASHTO LRFR
Analysis Module Component:
Properties:

Analysis Method: Distribution Factors
Analysis Module:

Analysis Module Component:
Properties:

Default rating method: LFD
LRFD shear computation method: General Procedure

Factors
Factor Override
LRFD:
LFD:
ASD Factors

	Inventory	Operating
Structural steel		
Concrete		
PS Concrete Comp.		
PS Concrete Tens.		
PS Moment Cap.		
Reinforcement		
Bearing Stiffener		
Stirrup		
Timber	NA	

Default Materials

Deck concrete:	Class A - f'c is 3 ksi
Deck reinforcement:	Grade 33
Beam concrete:	Class A - f'c is 3 ksi
Beam reinforcement:	Grade 33
Stirrup reinforcemt:	Grade 33
Prestressing strand:	3/8" (7W-250) SR

Impact
Standard Impact Factor
Type: Standard - AASHTO
LRFD Dynamic Load Allowance
Fatigue and fracture limit states: 15.0 *(%)*
All other limit states: 33.0 *(%)*

Live Load Distribution
Standard

	Distribution Factor (Wheels)			
Lanes Loaded	Shear	Shear at Supports	Moment	Deflection
1 Lane	0.535	0.333	0.535	0.222
Multi-Lane	0.535	0.333	0.535	0.444

Shrinkage/Time
Deck curing method:
Deck drying time: *(Days)*
Consider deck differential shrinkage loads:

Beam Curing method:
Curing time: *(Days)*
Service life: 75.00 *(Years)*
Analysis time: *(Years)*
Composite time: *(Days)*
Continuous time: *(Days)*

Beam Details

Span Details

Span	Prestress Shape Use Projection	Concrete Material n Creep	Prestress Properties	Left Projection *(in)*	Right *(in)*
1	TNB05 SS 27 X... TRUE	5 ksi f'c 6.64...	PP	9.0000	9.0000

Continuous Support Details

Support Number	Support Distance on Left, SL *(in)*	Support Distance on Right, SR *(in)*
1		
2		

Stress Limit Ranges

Stress Limit	Span	Start Distance *(ft)*	Length *(ft)*
SL	1	0.000	52.00

Slab Interface

Deck interface type: Monolithic
Interface width: *(in)*
Deck cohesion factor: 0.400 *(ksi)*
Deck friction factor: 1.400

Continuity Diaphragm

Span	Material	Left Support Distance	Bar	Bar	Right Support Material	Distance
	Bar	Bar				
No.			Count	Size	Count	Size

Prestressing Force Information

Strand Layout

Span	Pos.	Row No.	Col. No.	Config. Type	Harp Distance *(ft)*	Debond Distance *(in)*	Harp Curvature *(in)*
1		1	1	Straight/Debonded			
	Left						
	Right						
1		1	3	Straight/Debonded			
	Left						
	Right						
1		1	5	Straight/Debonded			
	Left						
	Right						
1		1	7	Straight/Debonded			
	Left						
	Right						
1		1	9	Straight/Debonded			
	Left						
	Right						
1		1	11	Straight/Debonded			
	Left						
	Right						
1		1	13	Straight/Debonded			
	Left						
	Right						
1		1	15	Straight/Debonded			
	Left						
	Right						
1		1	17	Straight/Debonded			
	Left						
	Right						
1		1	19	Straight/Debonded			
	Left						
	Right						
1		1	21	Straight/Debonded			
	Left						
	Right						
1		1	23	Straight/Debonded			
	Left						
	Right						
1		2	1	Straight/Debonded			
	Left						
	Right						
1		2	3	Straight/Debonded			
	Left						
	Right						
1		2	8	Straight/Debonded			
	Left						
	Right						
1		2	10	Straight/Debonded			
	Left						

1	Right Left	2	14	Straight/Debonded
1	Right Left	2	16	Straight/Debonded
1	Right Left	2	21	Straight/Debonded
1	Right Left	2	23	Straight/Debonded

Deck Profile

Deck Concrete

Material (LRFD)	Distance n	Length	Total Thickness	Structural Thickness	Effective Width (Std)	Effective Width
	(ft)	*(ft)*	*(in)*	*(in)*	*(in)*	*(in)*
Class A - f'c...	0.00	50.50		4.5000	45.0000	45.0000

Interior Diaphragms

Span	Start Distance	Spacing	No of Spaces	Thickness	Weight
	(ft)	*(ft)*		*(in)*	*(kip)*
1	0.00...	17.33	2	15.0000	0.6500

Shear Reinforcement Ranges - Vertical

Shear Reinforcement	Span No	Start Distance	Number Spaces	Spacing	Extends into Deck
		(ft)		*(in)*	
4 Bar	1	0.67	1	0.0000	TRUE
4 Bar	1	0.67	38	16.0000	TRUE

Shear Reinforcement Ranges - Horizontal

Shear Reinforcement	Span No	Start Distance	Number Spaces	Spacing	Composite Length

Member G2

Link with: None

Description:

Existing: G2 -

Current: G2 -

Number of Spans: 1

Span Number	Span Length *(ft)*
1	50.500000

Support	Frame Connection
1	
2	

Pedestrian load: *(lb/ft)*

Member Loads

Member Loads - Settlement

Support Number	Horizontal *(in)*	Vertical *(in)*	Rotational *(Radians)*	Load Case Name
1				
2				

Support Constraints

General

Support Number	Support Type	X Translation	Y Translation	Z Rotation
1	Pinned	Fixed	Fixed	Free
2	Roller	Free	Fixed	Free

Elastic

Support Number	X Translation *(kip/ft)*	Y Translation *(kip/ft)*	Z Rotation *(kip-in/rad)*	Override Computed Z Rotation
1				
2				

Member Alternative G2

Description:

Description

Material Type: Prestressed Concrete
Girder Type: PS Precast Box
Member units: US Customary
Girder property input method: Schedule based
Additional Self Load: *(kip/ft)*
Additional Self Load %: *(%)*

Analysis Module

Analysis Method: ASD
Analysis Module: Legacy AASHTO ASD
Analysis Module Component:
Properties:

Analysis Method: LFD
Analysis Module: Legacy AASHTO LFD
Analysis Module Component:
Properties:

Analysis Method: LRFD
Analysis Module: Legacy AASHTO LRFD
Analysis Module Component:
Properties:

Analysis Method: LRFR
Analysis Module: Legacy AASHTO LRFR
Analysis Module Component:
Properties:

Analysis Method: Distribution Factors
Analysis Module:
Analysis Module Component:
Properties:

Default rating method: LFD
LRFD shear computation method: General Procedure

Factors
Factor Override
LRFD:
LFD:
ASD Factors

	Inventory	Operating
Structural steel		
Concrete		
PS Concrete Comp.		
PS Concrete Tens.		
PS Moment Cap.		
Reinforcement		
Bearing Stiffener		
Stirrup		
Timber	NA	

Default Materials

Deck concrete:	Class A - f'c is 3 ksi
Deck reinforcement:	Grade 33
Beam concrete:	Class A - f'c is 3 ksi
Beam reinforcement:	Grade 33
Stirrup reinforcemt:	Grade 33
Prestressing strand:	3/8" (7W-250) SR

Impact
Standard Impact Factor
Type: Standard - AASHTO
LRFD Dynamic Load Allowance
Fatigue and fracture limit states: 15.0 *(%)*
All other limit states: 33.0 *(%)*

Live Load Distribution

Standard

Distribution Factor (Wheels)

Lanes Loaded	Shear	Shear at Supports	Moment	Deflection
1 Lane	0.535	0.333	0.535	0.222
Multi-Lane	0.535	0.333	0.535	0.444

Shrinkage/Time

Deck curing method:
Deck drying time: *(Days)*
Consider deck differential shrinkage loads:
Beam Curing method:
Curing time: *(Days)*
Service life: 75.00 *(Years)*
Analysis time: *(Years)*
Composite time: *(Days)*
Continuous time: *(Days)*

Beam Details

Span Details

Span	Prestress Shape Use Projection	Concrete Material n Creep	Prestress Properties	Left Projection *(in)*	Right *(in)*
1	TNB05 SS 27 X... FALSE	5 ksi f'c 6.64...	PP	9.0000	9.0000

Continuous Support Details

Support Number	Support Distance on Left, SL *(in)*	Support Distance on Right, SR *(in)*
1		
2		

Stress Limit Ranges

Stress Limit	Span	Start Distance *(ft)*	Length *(ft)*
SL	1	0.000	52.00

Slab Interface

Deck interface type: Monolithic
Interface width: *(in)*
Deck cohesion factor: 0.400 *(ksi)*
Deck friction factor: 1.400

Continuity Diaphragm

Span No.	Material	Left Support Distance Bar	Bar Count	Bar Size	Right Support Material	Right Support Distance Bar Count	Right Support Distance Bar Size

Prestressing Force Information

Strand Layout

Span	Pos.	Row No.	Col. No.	Config. Type	Harp Distance *(ft)*	Debond Distance *(in)*	Harp Curvature *(in)*
1	Left	1	1	Straight/Debonded			
	Right						
1	Left	1	3	Straight/Debonded			
	Right						
1	Left	1	5	Straight/Debonded			
	Right						
1	Left	1	7	Straight/Debonded			
	Right						
1	Left	1	9	Straight/Debonded			
	Right						
1	Left	1	11	Straight/Debonded			
	Right						
1	Left	1	13	Straight/Debonded			
	Right						
1	Left	1	15	Straight/Debonded			
	Right						
1	Left	1	17	Straight/Debonded			
	Right						
1	Left	1	19	Straight/Debonded			
	Right						
1	Left	1	21	Straight/Debonded			
	Right						
1	Left	1	23	Straight/Debonded			

1	Right Left	2	1	Straight/Debonded
1	Right Left	2	3	Straight/Debonded
1	Right Left	2	8	Straight/Debonded
1	Right Left	2	10	Straight/Debonded
1	Right Left	2	14	Straight/Debonded
1	Right Left	2	16	Straight/Debonded
1	Right Left	2	21	Straight/Debonded
1	Right Left	2	23	Straight/Debonded

Deck Profile

Deck Concrete

Material (LRFD)	Distance n	Length	Total Thickness	Structural Thickness	Effective Width (Std)	Effective Width
	(ft)	*(ft)*	*(in)*	*(in)*	*(in)*	*(in)*
Class A - f'c...	0.00 9.20...	50.50		6.2500	36.0000	36.0000

Interior Diaphragms

Span	Start Distance	Spacing	No of Spaces	Thickness	Weight
	(ft)	*(ft)*		*(in)*	*(kip)*
1	0.00...	17.33	2	15.0000	0.6500

Shear Reinforcement Ranges - Vertical

Shear Reinforcement	Span No	Start Distance	Number Spaces	Spacing	Extends into Deck
		(ft)		*(in)*	
4 Bar	1	0.67	1	0.0000	TRUE
4 Bar	1	0.67	38	16.0000	TRUE

Shear Reinforcement Ranges - Horizontal

Shear Reinforcement	Span No	Start Distance	Number Spaces	Spacing	Composite Length

Member G3

Link with: G2
Description:

Existing:
Current:
Number of Spans: 1

Span Number	Span Length *(ft)*
1	50.500000

Support	Frame Connection
1	
2	

Pedestrian load: *(lb/ft)*

Member G4

Link with: G2
Description:

Existing:
Current:
Number of Spans: 1

Span Number	Span Length *(ft)*
1	50.500000

Support	Frame Connection
1	
2	

Pedestrian load: *(lb/ft)*

Member G5

Link with: G2
Description:

Existing:
Current:
Number of Spans: 1

Span	Span Length

Number	(ft)
1	50.500000

Support	Frame Connection
1	
2	

Pedestrian load: *(lb/ft)*

Member G6

Link with: G2
Description:

Existing:
Current:
Number of Spans: 1

Span Number	Span Length (ft)
1	50.500000

Support	Frame Connection
1	
2	

Pedestrian load: *(lb/ft)*

Member G7

Link with: G2
Description:

Existing:
Current:
Number of Spans: 1

Span Number	Span Length (ft)
1	50.500000

Support	Frame Connection
1	
2	

Pedestrian load: *(lb/ft)*

Member G8

Link with: G2
Description:

Existing:

Current:
Number of Spans: 1

Span Number	Span Length *(ft)*
1	50.500000

Support	Frame Connection
1	
2	

Pedestrian load: *(lb/ft)*

Member G9

Link with: G1
Description:

Existing:
Current:
Number of Spans: 1

Span Number	Span Length *(ft)*
1	50.500000

Support	Frame Connection
1	
2	

Pedestrian load: *(lb/ft)*

Superstructure Definition 66' Span

Definition
Units: US Customary
Number of spans: 1
Number of girders: 9

Span	Length *(ft)*
1	64.5000

Frame Structure Simplified Definition:

Support	Frame Connection
1	
2	

Girder Spacing Display Type: Perpendicular
Average Humidity: 60.000 *(%)*
Analysis
Default Library Factors
Factor Override
Analysis Module
Analysis Method: ASD

Analysis Module:
Analysis Module Component:
Properties:

Analysis Method: LFD
Analysis Module:
Analysis Module Component:
Properties:

Analysis Method: LRFD
Analysis Module:
Analysis Module Component:
Properties:

Analysis Method: LRFR
Analysis Module:
Analysis Module Component:
Properties:

Analysis Method: Distribution Factors
Analysis Module:
Analysis Module Component:
Properties:

Default rating method: LFD

Impact

Standard Impact Factor

Type: Standard - AASHTO

LRFD Dynamic Load Allowance

Fatigue and fracture limit states: 15.0 *(%)*

All other limit states: 33.0 *(%)*

Structure Framing Plan Details

Layout

Support	Skew *(Degrees)*
1	3.3000
2	3.3000

Girder Spacing Orientation: Perpendicular

Girder Bay	Girder Spacing Start *(ft)*	End *(ft)*
1	3.0000	3.0000
2	3.0000	3.0000
3	3.0000	3.0000
4	3.0000	3.0000
5	3.0000	3.0000
6	3.0000	3.0000

7	3.0000	3.0000
8	3.0000	3.0000

Diaphragms
Girder Bay 1
Girder Bay 2
Girder Bay 3
Girder Bay 4
Girder Bay 5
Girder Bay 6
Girder Bay 7
Girder Bay 8

Structure Typical Section

Deck

Left start width:	14.25 *(ft)*
Left end width:	14.25 *(ft)*
Right start width:	14.25 *(ft)*
Right end width:	14.25 *(ft)*
Left start overhang:	2.25 *(ft)*
Left end overhang:	2.25 *(ft)*

Deck (Cont'd)

Deck concrete:	Class A - f'c is 3 ksi
Total deck thickness:	6.2500 *(in)*
Deck crack control parameter:	*(kip/in)*
Sustained modular ratio factor:	3.000

Parapet

Name	Load Case	Measure To	Measured From	Distance At Start	Distance At End	Front Face Orientation
Jersey Ba...	DC2	Back	Left Ed...	0.00	0.00	Right
Jersey Ba...	DC2	Back	Right E...	0.00	0.00	Left

Lane Position

Offset Left Start:	-12.50 *(ft)*
Offset Left End:	-12.50 *(ft)*
Offset Right Start:	12.50 *(ft)*
Offset Right End:	12.50 *(ft)*

Wearing Surface

Wearing surface material:	Asphalt
Description:	
Wearing surface thickness:	3.5000 *(in)*
Wearing surface density:	144.000 *(pcf)*
Load case:	DW

Load Case Description

Load Case Name	Description	Stage	Type	Time *(Days)*
DC1	DC acting on non-comp...	Non-composite (Sta...	D,DC	
DC2	DC acting on long-ter...	Composite (long te...	D,DC	
DW	DW acting on long-ter...	Composite (long te...	D,DW	

Superstructure Loads

DL Distribution

Stage 1 Dead Load Distribution: Tributary Area

Stage 2 Dead Load Distribution: Uniformly to All Girders

Stiffener Definitions

Stress Limits

Name: **SL**

Description:

Concrete material: 5 ksi f'c

Initial allowable tension (LFD):	0.190 *(ksi)*	
Initial allowable compression (LFD):	2.400 *(ksi)*	
Final allowable slab compression (LFD):	*(ksi)*	
Final allowable tension (LFD):	0.425 *(ksi)*	
Final allowable DL compression (LFD):	2.000 *(ksi)*	
Final allowable compression (LFD):	3.000 *(ksi)*	
Final allowable compression (LL + 1/2(Pe+DL)) (LFD):		2.000 *(ksi)*
Initial allowable tension (LRFD):	0.190 *(ksi)*	
Initial allowable compression (LRFD):	2.600 *(ksi)*	
Final allowable slab compression (LRFD):	*(ksi)*	
Final allowable tension (LRFD):	0.425 *(ksi)*	
Final allowable DL compression (LRFD):	2.250 *(ksi)*	
Final allowable compression (LRFD):	3.000 *(ksi)*	
Final allowable compression (LL + 1/2(Pe+DL)) (LRFD):		2.000 *(ksi)*

Prestress Properties

Name: **PP**

General Pretress Data

Prestressing Strand:	3/8" (7W-250) SR
Loss Method:	AASHTO Approximate
Jacking stress ratio:	0.700
Transfer stress ratio:	
Transfer time:	24.0 *(Hours)*
AASHTO - Dead load percent:	0.0 *(%)*

Loss Data - PCI

PCI - Maturity coefficient:	
PCI - Ultimate creep loss:	*(ksi)*
PCI - Ultimate shrinkage loss:	*(ksi)*
PCI - Additional time 1:	*(Days)*
PCI - Additional time 2:	*(Days)*
PCI - Additional time 3:	*(Days)*
PCI - Additional time 4:	*(Days)*
PCI - Additional time 5:	*(Days)*
PCI - Additional time 6:	*(Days)*
PCI - Additional time 7:	*(Days)*
PCI - Additional time 8:	*(Days)*
PCI - Additional time 9:	*(Days)*

PCI - Additional time 10: *(Days)*

Loss Data - Lump-sum

Lump-sum - Composite loss: *(ksi)*

Lump-sum - Continuous loss: *(ksi)*

Lump-sum - Final loss: *(ksi)*

Shear Reinforcement Definitions - Vertical

Name: **4 Bar**

Vertical Reinforcement: Grade 40

Vertical Rebar: 4

Number of legs (Vertical): 2.00

Inclination angle alpha (Vertical): 90.0 *(Degrees)*

No horizontal shear reinforcement definitions.

Member G1

Link with: None

Description:

Existing: G1 -

Current: G1 -

Number of Spans: 1

Span Number	Span Length *(ft)*
1	64.500000

Support	Frame Connection
1	
2	

Pedestrian load: *(lb/ft)*

Member Loads

Member Loads - Settlement

Support Number	Horizontal *(in)*	Vertical *(in)*	Rotational *(Radians)*	Load Case Name
1				
2				

Support Constraints

General

Support Number	Support Type	X Translation	Y Translation	Z Rotation
1	Pinned	Fixed	Fixed	Free
2	Roller	Free	Fixed	Free

Elastic

Support	X Translation	Y Translation	Z Rotation	Override Computed

Number	*(kip/ft)*	*(kip/ft)*	*(kip-in/rad)*	Z Rotation
1				
2				

Member Alternative G1

Description:

Description

Material Type: Prestressed Concrete
Girder Type: PS Precast Box
Member units: US Customary
Girder property input method: Schedule based
Additional Self Load: *(kip/ft)*
Additional Self Load %: *(%)*

Analysis Module

Analysis Method: ASD
Analysis Module: Legacy AASHTO ASD
Analysis Module Component:
Properties:

Analysis Method: LFD
Analysis Module: Legacy AASHTO LFD
Analysis Module Component:
Properties:

Analysis Method: LRFD
Analysis Module: Legacy AASHTO LRFD
Analysis Module Component:
Properties:

Analysis Method: LRFR
Analysis Module: Legacy AASHTO LRFR
Analysis Module Component:
Properties:

Analysis Method: Distribution Factors
Analysis Module:
Analysis Module Component:
Properties:

Default rating method: LFD
LRFD shear computation method: General Procedure

Factors

Factor Override

LRFD:
LFD:

ASD Factors

	Inventory	Operating
Structural steel		
Concrete		

PS Concrete Comp.
PS Concrete Tens.
PS Moment Cap.
Reinforcement
Bearing Stiffener
Stirrup
Timber NA

Default Materials

Deck concrete:	Class A - f'c is 3 ksi
Deck reinforcement:	Grade 33
Beam concrete:	Class A - f'c is 3 ksi
Beam reinforcement:	Grade 33
Stirrup reinforcemt:	Grade 33
Prestressing strand:	3/8" (7W-250) SR

Impact

Standard Impact Factor

Type: Standard - AASHTO

LRFD Dynamic Load Allowance

Fatigue and fracture limit states: 15.0 *(%)*
All other limit states: 33.0 *(%)*

Live Load Distribution

Standard

D i s t r i b u t i o n F a c t o r (Wheels)

Lanes Loaded	Shear	Shear at Supports	Moment	Deflection
1 Lane	0.535	0.333	0.535	0.222
Multi-Lane	0.535	0.333	0.535	0.444

Shrinkage/Time

Deck curing method:
Deck drying time: *(Days)*
Consider deck differential shrinkage loads:
Beam Curing method:
Curing time: *(Days)*
Service life: 75.00 *(Years)*
Analysis time: *(Years)*
Composite time: *(Days)*
Continuous time: *(Days)*

Beam Details

Span Details

Span	Prestress Use	Shape	Concrete Material n	Prestress Properties	Left Projection	Right

	Projection	Creep			
				(in)	(in)
1	TNB05 SS 27 X...	5 ksi f'c	PP	9.0000	9.0000
	TRUE	6.64...			

Continuous Support Details

Support Number	Support Distance on Left, SL (in)	Support Distance on Right, SR (in)
1		
2		

Stress Limit Ranges

Stress Limit	Span	Start Distance (ft)	Length (ft)
SL	1	0.000	66.00

Slab Interface

Deck interface type:	Monolithic
Interface width:	(in)
Deck cohesion factor:	0.400 (ksi)
Deck friction factor:	1.400

Continuity Diaphragm

Span No.	Material	Left Support Distance	Bar Count	Bar Size	Right Support Material	Distance
	Bar	Bar				

Prestressing Force Information

Strand Layout

Span	Pos.	Row No.	Col. No.	Config. Type	Harp Distance (ft)	Debond Distance (in)	Harp Curvature (in)
1		1	1	Straight/Debonded			
	Left						
	Right						
1		1	2	Straight/Debonded			
	Left						
	Right						
1		1	3	Straight/Debonded			
	Left						
	Right						
1		1	4	Straight/Debonded			
	Left						

1	Right	1	5	Straight/Debonded
	Left			
1	Right	1	7	Straight/Debonded
	Left			
1	Right	1	8	Straight/Debonded
	Left			
1	Right	1	9	Straight/Debonded
	Left			
1	Right	1	10	Straight/Debonded
	Left			
1	Right	1	11	Straight/Debonded
	Left			
1	Right	1	12	Straight/Debonded
	Left			
1	Right	1	13	Straight/Debonded
	Left			
1	Right	1	14	Straight/Debonded
	Left			
1	Right	1	15	Straight/Debonded
	Left			
1	Right	1	16	Straight/Debonded
	Left			
1	Right	1	17	Straight/Debonded
	Left			
1	Right	1	19	Straight/Debonded
	Left			
1	Right	1	20	Straight/Debonded
	Left			
1	Right	1	21	Straight/Debonded
	Left			
1	Right	1	22	Straight/Debonded
	Left			
1	Right	1	23	Straight/Debonded

	Left Right			
1		2	1	Straight/Debonded
	Left Right			
1		2	2	Straight/Debonded
	Left Right			
1		2	3	Straight/Debonded
	Left Right			
1		2	11	Straight/Debonded
	Left Right			
1		2	12	Straight/Debonded
	Left Right			
1		2	13	Straight/Debonded
	Left Right			
1		2	21	Straight/Debonded
	Left Right			
1		2	22	Straight/Debonded
	Left Right			
1		2	23	Straight/Debonded
	Left Right			

Deck Profile

Deck Concrete

Material (LRFD)	Distance n	Length	Total Thickness	Structural Thickness	Effective Width (Std)	Effective Width
	(ft)	*(ft)*	*(in)*	*(in)*	*(in)*	*(in)*
Class A - f'c...	0.00 9.20...	64.50		4.5000	45.0000	45.0000

Interior Diaphragms

Span	Start Distance	Spacing	No of Spaces	Thickness	Weight
	(ft)	*(ft)*		*(in)*	*(kip)*
1	0.00...	22.00	2	15.0000	0.6500

Shear Reinforcement Ranges - Vertical

Shear Reinforcement	Span No	Start Distance	Number Spaces	Spacing	Extends into Deck

		(ft)		(in)	
4 Bar	1	0.33	1	0.0000	TRUE
4 Bar	1	0.33	49	16.0000	TRUE

Shear Reinforcement Ranges - Horizontal

Shear Reinforcement	Span No	Start Distance	Number Spaces	Spacing	Composite Length

Member G2

Link with: None
Description:

Existing: G2 -
Current: G2 -
Number of Spans: 1

Span Number	Span Length (ft)
1	64.500000

Support	Frame Connection
1	
2	

Pedestrian load: (lb/ft)

Member Loads

Member Loads - Settlement

Support Number	Horizontal (in)	Vertical (in)	Rotational (Radians)	Load Case Name
1				
2				

Support Constraints

General

Support Number	Support Type	X Translation	Y Translation	Z Rotation
1	Pinned	Fixed	Fixed	Free
2	Roller	Free	Fixed	Free

Elastic

Support Number	X Translation (kip/ft)	Y Translation (kip/ft)	Z Rotation (kip-in/rad)	Override Computed Z Rotation
1				
2				

Member Alternative G2

Description:

Description

Material Type: Prestressed Concrete
Girder Type: PS Precast Box
Member units: US Customary
Girder property input method: Schedule based
Additional Self Load: *(kip/ft)*
Additional Self Load %: *(%)*

Analysis Module

Analysis Method: ASD
Analysis Module: Legacy AASHTO ASD
Analysis Module Component:
Properties:

Analysis Method: LFD
Analysis Module: Legacy AASHTO LFD
Analysis Module Component:
Properties:

Analysis Method: LRFD
Analysis Module: Legacy AASHTO LRFD
Analysis Module Component:
Properties:

Analysis Method: LRFR
Analysis Module: Legacy AASHTO LRFR
Analysis Module Component:
Properties:

Analysis Method: Distribution Factors
Analysis Module:
Analysis Module Component:
Properties:

Default rating method: LFD
LRFD shear computation method: General Procedure

Factors

Factor Override

LRFD:
LFD:

ASD Factors

	Inventory	Operating
Structural steel		
Concrete		
PS Concrete Comp.		
PS Concrete Tens.		
PS Moment Cap.		
Reinforcement		
Bearing Stiffener		
Stirrup		

Timber	NA

Default Materials

Deck concrete:	Class A - f'c is 3 ksi
Deck reinforcement:	Grade 33
Beam concrete:	Class A - f'c is 3 ksi
Beam reinforcement:	Grade 33
Stirrup reinforcemt:	Grade 33
Prestressing strand:	3/8" (7W-250) SR

Impact

Standard Impact Factor

Type:	Standard - AASHTO

LRFD Dynamic Load Allowance

Fatigue and fracture limit states:	15.0 *(%)*
All other limit states:	33.0 *(%)*

Live Load Distribution

Standard

D i s t r i b u t i o n F a c t o r (Wheels)

Lanes Loaded	Shear	Shear at Supports	Moment	Deflection
1 Lane	0.535	0.333	0.535	0.222
Multi-Lane	0.535	0.333	0.535	0.444

Shrinkage/Time

Deck curing method:	
Deck drying time:	*(Days)*
Consider deck differential shrinkage loads:	
Beam Curing method:	
Curing time:	*(Days)*
Service life:	75.00 *(Years)*
Analysis time:	*(Years)*
Composite time:	*(Days)*
Continuous time:	*(Days)*

Beam Details

Span Details

Span	Prestress Shape Use Projection	Concrete Material n Creep	Prestress Properties	Left Projection *(in)*	Right *(in)*
1	TNB05 SS 27 X... TRUE	5 ksi f'c 6.64...	PP	9.0000	9.0000

Continuous Support Details

Support Number	Support Distance on Left, SL *(in)*	Support Distance on Right, SR *(in)*
1		
2		

Stress Limit Ranges

Stress Limit	Span	Start Distance *(ft)*	Length *(ft)*
SL	1	0.000	66.00

Slab Interface

Deck interface type:	Monolithic
Interface width:	*(in)*
Deck cohesion factor:	0.400 *(ksi)*
Deck friction factor:	1.400

Continuity Diaphragm

Span No.	Material	Left Support Distance	Bar Count	Bar Size	Material	Right Support Distance
	Bar	Bar			Bar	

Prestressing Force Information

Strand Layout

Span	Pos.	Row No.	Col. No.	Config. Type	Harp Distance *(ft)*	Debond Distance *(in)*	Harp Curvature *(in)*
1		1	1	Straight/Debonded			
	Left						
	Right						
1		1	2	Straight/Debonded			
	Left						
	Right						
1		1	3	Straight/Debonded			
	Left						
	Right						
1		1	4	Straight/Debonded			
	Left						
	Right						
1		1	5	Straight/Debonded			
	Left						
	Right						
1		1	7	Straight/Debonded			
	Left						

1	Right Left	1	8	Straight/Debonded
1	Right Left	1	9	Straight/Debonded
1	Right Left	1	10	Straight/Debonded
1	Right Left	1	11	Straight/Debonded
1	Right Left	1	12	Straight/Debonded
1	Right Left	1	13	Straight/Debonded
1	Right Left	1	14	Straight/Debonded
1	Right Left	1	15	Straight/Debonded
1	Right Left	1	16	Straight/Debonded
1	Right Left	1	17	Straight/Debonded
1	Right Left	1	19	Straight/Debonded
1	Right Left	1	20	Straight/Debonded
1	Right Left	1	21	Straight/Debonded
1	Right Left	1	22	Straight/Debonded
1	Right Left	1	23	Straight/Debonded
1	Right Left	2	1	Straight/Debonded
1	Right Left	2	2	Straight/Debonded

	Left Right			
1		2	3	Straight/Debonded
	Left Right			
1		2	11	Straight/Debonded
	Left Right			
1		2	12	Straight/Debonded
	Left Right			
1		2	13	Straight/Debonded
	Left Right			
1		2	21	Straight/Debonded
	Left Right			
1		2	22	Straight/Debonded
	Left Right			
1		2	23	Straight/Debonded
	Left Right			

Deck Profile

Deck Concrete

Material (LRFD)	Distance n	Length	Total Thickness	Structural Thickness	Effective Width (Std)	Effective Width
	(ft)	*(ft)*	*(in)*	*(in)*	*(in)*	*(in)*
Class A - f'c...	0.00 9.20...	64.50		6.2500	36.0000	36.0000

Interior Diaphragms

Span	Start Distance	Spacing	No of Spaces	Thickness	Weight
	(ft)	*(ft)*		*(in)*	*(kip)*
1	0.00...	22.00	2	15.0000	0.6500

Shear Reinforcement Ranges - Vertical

Shear Reinforcement	Span No	Start Distance	Number Spaces	Spacing	Extends into Deck
		(ft)		*(in)*	
4 Bar	1	0.33	1	0.0000	TRUE
4 Bar	1	0.33	49	16.0000	TRUE

Shear Reinforcement Ranges - Horizontal

Shear Reinforcement	Span No	Start Distance	Number Spaces	Spacing	Composite Length

Member G3

Link with: G2
Description:

Existing:
Current:
Number of Spans: 1

Span Number	Span Length *(ft)*
1	64.500000

Support	Frame Connection
1	
2	

Pedestrian load: *(lb/ft)*

Member G4

Link with: G2
Description:

Existing:
Current:
Number of Spans: 1

Span Number	Span Length *(ft)*
1	64.500000

Support	Frame Connection
1	
2	

Pedestrian load: *(lb/ft)*

Member G5

Link with: G2
Description:

Existing:
Current:
Number of Spans: 1

Span Number	Span Length *(ft)*
1	64.500000

Support	Frame Connection
1	
2	

Pedestrian load: *(lb/ft)*

Member G6

Link with: G2
Description:

Existing:
Current:
Number of Spans: 1

Span Number	Span Length *(ft)*
1	64.500000

Support	Frame Connection
1	
2	

Pedestrian load: *(lb/ft)*

Member G7

Link with: G2
Description:

Existing:
Current:
Number of Spans: 1

Span Number	Span Length *(ft)*
1	64.500000

Support	Frame Connection
1	
2	

Pedestrian load: *(lb/ft)*

Member G8

Link with: G2
Description:

Existing:
Current:
Number of Spans: 1

Span Number	Span Length (ft)
1	64.500000

Support	Frame Connection
1	
2	

Pedestrian load: *(lb/ft)*

Member G9

Link with: G1
Description:

Existing:
Current:
Number of Spans: 1

Span Number	Span Length (ft)
1	64.500000

Support	Frame Connection
1	
2	

Pedestrian load: *(lb/ft)*

Superstructure Definition 55' Span

Definition
Units: US Customary
Number of spans: 1
Number of girders: 9

Span	Length (ft)
1	53.5000

Frame Structure Simplified Definition:

Support	Frame Connection
1	
2	

Girder Spacing Display Type: Perpendicular
Average Humidity: 60.000 *(%)*
Analysis
Default Library Factors
Factor Override
Analysis Module
Analysis Method: ASD
Analysis Module:
Analysis Module Component:

Properties:

Analysis Method: LFD
Analysis Module:
Analysis Module Component:
Properties:

Analysis Method: LRFD
Analysis Module:
Analysis Module Component:
Properties:

Analysis Method: LRFR
Analysis Module:
Analysis Module Component:
Properties:

Analysis Method: Distribution Factors
Analysis Module:
Analysis Module Component:
Properties:

Default rating method: LFD

Impact

Standard Impact Factor

Type: Standard - AASHTO

LRFD Dynamic Load Allowance

Fatigue and fracture limit states: 15.0 *(%)*

All other limit states: 33.0 *(%)*

Structure Framing Plan Details

Layout

Support	Skew *(Degrees)*
1	3.3000
2	3.3000

Girder Spacing Orientation: Perpendicular

Girder Bay	Girder Spacing Start *(ft)*	End *(ft)*
1	3.0000	3.0000
2	3.0000	3.0000
3	3.0000	3.0000
4	3.0000	3.0000
5	3.0000	3.0000
6	3.0000	3.0000
7	3.0000	3.0000
8	3.0000	3.0000

Diaphragms
Girder Bay 1
Girder Bay 2
Girder Bay 3
Girder Bay 4
Girder Bay 5
Girder Bay 6
Girder Bay 7
Girder Bay 8

Structure Typical Section

Deck

Left start width:	14.25 *(ft)*
Left end width:	14.25 *(ft)*
Right start width:	14.25 *(ft)*
Right end width:	14.25 *(ft)*
Left start overhang:	2.25 *(ft)*
Left end overhang:	2.25 *(ft)*

Deck (Cont'd)

Deck concrete:	Class A - f'c is 3 ksi
Total deck thickness:	6.2500 *(in)*
Deck crack control parameter:	*(kip/in)*
Sustained modular ratio factor:	3.000

Parapet

Name	Load Case	Measure To	Measured From	Distance At Start	Distance At End	Front Face Orientation
Jersey Ba...	DC2	Back	Left Ed...	0.00	0.00	Right
Jersey Ba...	DC2	Back	Right E...	0.00	0.00	Left

Lane Position

Offset Left Start:	-12.50 *(ft)*
Offset Left End:	-12.50 *(ft)*
Offset Right Start:	12.50 *(ft)*
Offset Right End:	12.50 *(ft)*

Wearing Surface

Wearing surface material:	Asphalt
Description:	
Wearing surface thickness:	3.5000 *(in)*
Wearing surface density:	144.000 *(pcf)*
Load case:	DW

Load Case Description

Load Case Name	Description	Stage	Type	Time *(Days)*
DC1	DC acting on non-comp...	Non-composite (Sta...	D,DC	
DC2	DC acting on long-ter...	Composite (long te...	D,DC	
DW	DW acting on long-ter...	Composite (long te...	D,DW	
SIP Forms	Weight due to stay-in...	Non-composite (Sta...	D,DC	

Superstructure Loads

DL Distribution

Stage 1 Dead Load Distribution: Tributary Area

Stage 2 Dead Load Distribution: Uniformly to All Girders

Stiffener Definitions

Stress Limits

Name: **SL**

Description:

Concrete material: 5 ksi f'c

Initial allowable tension (LFD):	0.190 *(ksi)*	
Initial allowable compression (LFD):	2.400 *(ksi)*	
Final allowable slab compression (LFD):	*(ksi)*	
Final allowable tension (LFD):	0.425 *(ksi)*	
Final allowable DL compression (LFD):	2.000 *(ksi)*	
Final allowable compression (LFD):	3.000 *(ksi)*	
Final allowable compression (LL + 1/2(Pe+DL)) (LFD):		2.000 *(ksi)*
Initial allowable tension (LRFD):	0.190 *(ksi)*	
Initial allowable compression (LRFD):	2.600 *(ksi)*	
Final allowable slab compression (LRFD):	*(ksi)*	
Final allowable tension (LRFD):	0.425 *(ksi)*	
Final allowable DL compression (LRFD):	2.250 *(ksi)*	
Final allowable compression (LRFD):	3.000 *(ksi)*	
Final allowable compression (LL + 1/2(Pe+DL)) (LRFD):		2.000 *(ksi)*

Prestress Properties

Name: **PP**

General Pretress Data

Prestressing Strand:	3/8" (7W-250) SR
Loss Method:	AASHTO Approximate
Jacking stress ratio:	0.700
Transfer stress ratio:	
Transfer time:	24.0 *(Hours)*
AASHTO - Dead load percent:	0.0 *(%)*

Loss Data - PCI

PCI - Maturity coefficient:	
PCI - Ultimate creep loss:	*(ksi)*
PCI - Ultimate shrinkage loss:	*(ksi)*
PCI - Additional time 1:	*(Days)*
PCI - Additional time 2:	*(Days)*
PCI - Additional time 3:	*(Days)*
PCI - Additional time 4:	*(Days)*
PCI - Additional time 5:	*(Days)*
PCI - Additional time 6:	*(Days)*
PCI - Additional time 7:	*(Days)*
PCI - Additional time 8:	*(Days)*
PCI - Additional time 9:	*(Days)*
PCI - Additional time 10:	*(Days)*

Loss Data - Lump-sum

Lump-sum - Composite loss: *(ksi)*
Lump-sum - Continuous loss: *(ksi)*
Lump-sum - Final loss: *(ksi)*

Shear Reinforcement Definitions - Vertical

Name: **4 Bar**
Vertical Reinforcement: Grade 40
Vertical Rebar: 4
Number of legs (Vertical): 2.00
Inclination angle alpha (Vertical): 90.0 *(Degrees)*
No horizontal shear reinforcement definitions.

Member G1

Link with: None
Description:

Existing: 1 -
Current: 1 -
Number of Spans: 1

Span Number	Span Length *(ft)*
1	53.500000

Support	Frame Connection
1	
2	

Pedestrian load: *(lb/ft)*

Member Loads

Member Loads - Settlement

Support Number	Horizontal *(in)*	Vertical *(in)*	Rotational *(Radians)*	Load Case Name
1				
2				

Support Constraints

General

Support Number	Support Type	X Translation	Y Translation	Z Rotation
1	Pinned	Fixed	Fixed	Free
2	Roller	Free	Fixed	Free

Elastic

Support Number	X Translation *(kip/ft)*	Y Translation *(kip/ft)*	Z Rotation *(kip-in/rad)*	Override Computed Z Rotation
1				

Member Alternative 1

Description:
Description
Material Type: Prestressed Concrete
Girder Type: PS Precast Box
Member units: US Customary
Girder property input method: Schedule based
Additional Self Load: *(kip/ft)*
Additional Self Load %: *(%)*
Analysis Module
Analysis Method: ASD
Analysis Module: Legacy AASHTO ASD
Analysis Module Component:
Properties:

Analysis Method: LFD
Analysis Module: Legacy AASHTO LFD
Analysis Module Component:
Properties:

Analysis Method: LRFD
Analysis Module: Legacy AASHTO LRFD
Analysis Module Component:
Properties:

Analysis Method: LRFR
Analysis Module: Legacy AASHTO LRFR
Analysis Module Component:
Properties:

Analysis Method: Distribution Factors
Analysis Module:
Analysis Module Component:
Properties:

Default rating method: LFD
LRFD shear computation method: General Procedure

Factors
Factor Override
LRFD:
LFD:
ASD Factors

	Inventory	Operating
Structural steel		
Concrete		
PS Concrete Comp.		
PS Concrete Tens.		

PS Moment Cap.
Reinforcement
Bearing Stiffener
Stirrup
Timber NA

Default Materials

Deck concrete:	Class A - f'c is 3 ksi
Deck reinforcement:	Grade 33
Beam concrete:	Class A - f'c is 3 ksi
Beam reinforcement:	Grade 33
Stirrup reinforcemt:	Grade 33
Prestressing strand:	3/8" (7W-250) SR

Impact

Standard Impact Factor

Type: Standard - AASHTO

LRFD Dynamic Load Allowance

Fatigue and fracture limit states: 15.0 *(%)*
All other limit states: 33.0 *(%)*

Live Load Distribution

Standard

D i s t r i b u t i o n F a c t o r (Wheels)

Lanes Loaded	Shear	Shear at Supports	Moment	Deflection
1 Lane	0.535	0.333	0.535	0.222
Multi-Lane	0.535	0.333	0.535	0.444

Shrinkage/Time

Deck curing method:
Deck drying time: *(Days)*
Consider deck differential shrinkage loads:
Beam Curing method:
Curing time: *(Days)*
Service life: 75.00 *(Years)*
Analysis time: *(Years)*
Composite time: *(Days)*
Continuous time: *(Days)*

Beam Details

Span Details

Span	Prestress Shape Use	Concrete Material n	Prestress Properties	Left Projection	Right Projection
		Creep		*(in)*	*(in)*

1	TNB05 SS 27 X... TRUE	5 ksi f'c 6.64...	PP	9.0000	9.0000

Continuous Support Details

Support Number	Support Distance on Left, SL *(in)*	Support Distance on Right, SR *(in)*
1		
2		

Stress Limit Ranges

Stress Limit	Span	Start Distance *(ft)*	Length *(ft)*
SL	1	0.000	55.00

Slab Interface

Deck interface type:	Monolithic
Interface width:	*(in)*
Deck cohesion factor:	0.400 *(ksi)*
Deck friction factor:	1.400

Continuity Diaphragm

Span No.	Material	Left Support Distance	Bar Count	Bar Size	Right Support Material	Bar Count	Distance Bar Size

Prestressing Force Information

Strand Layout

Span	Pos.	Row No.	Col. No.	Config. Type	Harp Distance *(ft)*	Debond Distance *(in)*	Harp Curvature *(in)*
1		1	1	Straight/Debonded			
	Left						
	Right						
1		1	2	Straight/Debonded			
	Left						
	Right						
1		1	3	Straight/Debonded			
	Left						
	Right						
1		1	4	Straight/Debonded			
	Left						
	Right						
1		1	9	Straight/Debonded			

	Left Right			
1		1	11	Straight/Debonded
	Left Right			
1		1	13	Straight/Debonded
	Left Right			
1		1	15	Straight/Debonded
	Left Right			
1		1	20	Straight/Debonded
	Left Right			
1		1	21	Straight/Debonded
	Left Right			
1		1	22	Straight/Debonded
	Left Right			
1		1	23	Straight/Debonded
	Left Right			
1		2	1	Straight/Debonded
	Left Right			
1		2	3	Straight/Debonded
	Left Right			
1		2	7	Straight/Debonded
	Left Right			
1		2	9	Straight/Debonded
	Left Right			
1		2	11	Straight/Debonded
	Left Right			
1		2	13	Straight/Debonded
	Left Right			
1		2	15	Straight/Debonded
	Left Right			
1		2	17	Straight/Debonded
	Left Right			
1		2	21	Straight/Debonded
	Left Right			

1		2	23	Straight/Debonded
	Left			
	Right			

Deck Profile

Deck Concrete

Material (LRFD)	Distance n (ft)	Length (ft)	Total Thickness (in)	Structural Thickness (in)	Effective Width (Std) (in)	Effective Width (in)
Class A - f'c...	0.00 9.20...	53.50		4.5000	45.0000	45.0000

Interior Diaphragms

Span	Start Distance (ft)	Spacing (ft)	No of Spaces	Thickness (in)	Weight (kip)
1	0.00...	18.33	2	15.0000	0.6500

Shear Reinforcement Ranges - Vertical

Shear Reinforcement	Span No	Start Distance (ft)	Number Spaces	Spacing (in)	Extends into Deck
4 Bar	1	0.17	1	0.0000	TRUE
4 Bar	1	0.17	41	16.0000	TRUE

Shear Reinforcement Ranges - Horizontal

Shear Reinforcement	Span No	Start Distance	Number Spaces	Spacing	Composite Length

Member G2

Link with: None
Description:

Existing: G2 -
Current: G2 -
Number of Spans: 1

Span Number	Span Length (ft)
1	53.500000

Support	Frame Connection
1	
2	

Pedestrian load: (lb/ft)

Member Loads

Member Loads - Settlement

Support Number	Horizontal *(in)*	Vertical *(in)*	Rotational *(Radians)*	Load Case Name
1				
2				

Support Constraints

General

Support Number	Support Type	X Translation	Y Translation	Z Rotation
1	Pinned	Fixed	Fixed	Free
2	Roller	Free	Fixed	Free

Elastic

Support Number	X Translation *(kip/ft)*	Y Translation *(kip/ft)*	Z Rotation *(kip-in/rad)*	Override Computed Z Rotation
1				
2				

Member Alternative G2

Description:

Description

Material Type: Prestressed Concrete
Girder Type: PS Precast Box
Member units: US Customary
Girder property input method: Schedule based
Additional Self Load: *(kip/ft)*
Additional Self Load %: *(%)*

Analysis Module

Analysis Method: ASD
Analysis Module: Legacy AASHTO ASD
Analysis Module Component:
Properties:

Analysis Method: LFD
Analysis Module: Legacy AASHTO LFD
Analysis Module Component:
Properties:

Analysis Method: LRFD
Analysis Module: Legacy AASHTO LRFD
Analysis Module Component:
Properties:

Analysis Method: LRFR
Analysis Module: Legacy AASHTO LRFR
Analysis Module Component:
Properties:

Analysis Method: Distribution Factors
Analysis Module:
Analysis Module Component:
Properties:

Default rating method: LFD
LRFD shear computation method: General Procedure

Factors
Factor Override
LRFD:
LFD:
ASD Factors

	Inventory	Operating
Structural steel		
Concrete		
PS Concrete Comp.		
PS Concrete Tens.		
PS Moment Cap.		
Reinforcement		
Bearing Stiffener		
Stirrup		
Timber	NA	

Default Materials

Deck concrete:	Class A - f'c is 3 ksi
Deck reinforcement:	Grade 33
Beam concrete:	Class A - f'c is 3 ksi
Beam reinforcement:	Grade 33
Stirrup reinforcemt:	Grade 33
Prestressing strand:	3/8" (7W-250) SR

Impact
Standard Impact Factor
Type: Standard - AASHTO
LRFD Dynamic Load Allowance
Fatigue and fracture limit states: 15.0 *(%)*
All other limit states: 33.0 *(%)*

Live Load Distribution
Standard

	Distribution Factor (Wheels)			
Lanes Loaded	Shear	Shear at Supports	Moment	Deflection
1 Lane	0.535	0.333	0.535	0.222
Multi-Lane	0.535	0.333	0.535	0.444

Shrinkage/Time

Deck curing method:
Deck drying time: *(Days)*
Consider deck differential shrinkage loads:
Beam Curing method:
Curing time: *(Days)*
Service life: 75.00 *(Years)*
Analysis time: *(Years)*
Composite time: *(Days)*
Continuous time: *(Days)*

Beam Details

Span Details

Span	Prestress Shape Use Projection	Concrete Material n Creep	Prestress Properties	Left Projection *(in)*	Right *(in)*
1	TNB05 SS 27 X... TRUE	5 ksi f'c 6.64...	PP	9.0000	9.0000

Continuous Support Details

Support Number	Support Distance on Left, SL *(in)*	Support Distance on Right, SR *(in)*
1		
2		

Stress Limit Ranges

Stress Limit	Span	Start Distance *(ft)*	Length *(ft)*
SL	1	0.000	55.00

Slab Interface

Deck interface type: Monolithic
Interface width: *(in)*
Deck cohesion factor: 0.400 *(ksi)*
Deck friction factor: 1.400

Continuity Diaphragm

Span	Material Bar	Left Support Distance Bar	Bar	Bar	Right Support Material	Distance
No.			Count	Size	Count	Size

Prestressing Force Information

Strand Layout

Span	Pos.	Row No.	Col. No.	Config. Type	Harp Distance *(ft)*	Debond Distance *(in)*	Harp Curvature *(in)*
1		1	1	Straight/Debonded			
	Left						
	Right						
1		1	2	Straight/Debonded			
	Left						
	Right						
1		1	3	Straight/Debonded			
	Left						
	Right						
1		1	4	Straight/Debonded			
	Left						
	Right						
1		1	9	Straight/Debonded			
	Left						
	Right						
1		1	11	Straight/Debonded			
	Left						
	Right						
1		1	13	Straight/Debonded			
	Left						
	Right						
1		1	15	Straight/Debonded			
	Left						
	Right						
1		1	20	Straight/Debonded			
	Left						
	Right						
1		1	21	Straight/Debonded			
	Left						
	Right						
1		1	22	Straight/Debonded			
	Left						
	Right						
1		1	23	Straight/Debonded			
	Left						
	Right						
1		2	1	Straight/Debonded			
	Left						
	Right						
1		2	3	Straight/Debonded			
	Left						
	Right						
1		2	7	Straight/Debonded			
	Left						

1	Right Left	2	9	Straight/Debonded
1	Right Left	2	11	Straight/Debonded
1	Right Left	2	13	Straight/Debonded
1	Right Left	2	15	Straight/Debonded
1	Right Left	2	17	Straight/Debonded
1	Right Left	2	21	Straight/Debonded
1	Right Left	2	23	Straight/Debonded

Deck Profile

Deck Concrete

Material (LRFD)	Distance n	Length	Total Thickness	Structural Thickness	Effective Width (Std)	Effective Width
	(ft)	*(ft)*	*(in)*	*(in)*	*(in)*	*(in)*
Class A - f'c...	0.00 9.20...	53.50		6.2500	36.0000	36.0000

Interior Diaphragms

Span	Start Distance	Spacing	No of Spaces	Thickness	Weight
	(ft)	*(ft)*		*(in)*	*(kip)*
1	0.00...	18.33	2	15.0000	0.6500

Shear Reinforcement Ranges - Vertical

Shear Reinforcement	Span No	Start Distance	Number Spaces	Spacing	Extends into Deck
		(ft)		*(in)*	
4 Bar	1	0.17	1	0.0000	TRUE
4 Bar	1	0.17	41	16.0000	TRUE

Shear Reinforcement Ranges - Horizontal

Shear	Span	Start	Number	Spacing	Composite

Reinforcement	No	Distance	Spaces	Length

Member G3

Link with: G2
Description:

Existing:
Current:
Number of Spans: 1

Span Number	Span Length *(ft)*
1	53.500000

Support	Frame Connection
1	
2	

Pedestrian load: *(lb/ft)*

Member G4

Link with: G2
Description:

Existing:
Current:
Number of Spans: 1

Span Number	Span Length *(ft)*
1	53.500000

Support	Frame Connection
1	
2	

Pedestrian load: *(lb/ft)*

Member G5

Link with: G2
Description:

Existing:
Current:
Number of Spans: 1

Span Number	Span Length *(ft)*
1	53.500000

Support	Frame Connection
1	
2	

Pedestrian load: *(lb/ft)*

Member G6

Link with: G2
Description:

Existing:
Current:
Number of Spans: 1

Span Number	Span Length *(ft)*
1	53.500000

Support	Frame Connection
1	
2	

Pedestrian load: *(lb/ft)*

Member G7

Link with: G2
Description:

Existing:
Current:
Number of Spans: 1

Span Number	Span Length *(ft)*
1	53.500000

Support	Frame Connection
1	
2	

Pedestrian load: *(lb/ft)*

Member G8

Link with: G2
Description:

Existing:
Current:
Number of Spans: 1

Span Number	Span Length *(ft)*
1	53.500000

Support	Frame Connection
1	
2	

Pedestrian load: *(lb/ft)*

Member G9

Link with: G1
Description:

Existing:
Current:
Number of Spans: 1

Span Number	Span Length *(ft)*
1	53.500000

Support	Frame Connection
1	
2	

Pedestrian load: *(lb/ft)*