Bridge

Name	LUC-51-1285	
Description	Existing plans (1960), overlay plans plans (1995), and rehabilitation plans (2023) were used for analysis. 281.5-ft long, four-span, rolled steel beam bridge with a composite reinforced concrete deck Span Lengths = 52' / 86.5 '/ 86.5' / 52'; Skew = 3°10'33" RF; Deck Thickness = 8.5" Deck Width = 90'-10" o/o ; Bridge Roadway width = 72' t/t barrier; Multi-Use Path = 14'-9" t/t barrier No. of Ex. Girders = 10; Ex. Girder spacing = 7'-6"; No. of New Girders = 4; New Girder spacing = 6'-0"; Overhangs = 2'-6" (Typ.) Structural Steel: Fy = 32 ksi (existing beams) / 50 ksi (new beams) Concrete: f'c = 4.5 ksi; Reinforcing Steel; Fy = 60 ksi Modified BR-2-15 (right, middle, left); Does not include FWS; The bridge is in Good Condition and no section loss was included in analysis. Rater: NES Date: 11/4/2022 Arcadis PE: 87415 Reviewer: FJG Date 11/4/2022 Arcadis PE:66992 Reviewer: RJB Date 6/29/2023 Arcadis PE:81226	
Creation Timestamp	Friday, November 4, 2022	
Last Modified Timestamp	Friday, June 30, 2023	
Elevation		ft
X Plane Coordinate		ft
Y Plane Coordinate		ft
Recent ADTT Year		
Recent ADTT		
Previous ADTT Growth Rate		
Traffic Factor		
LRFD Constant Impact Factor	33.0	%
LRFD Fatigue Impact Factor	15.0	%
Impact Factor Adjustment		
Impact Factor Override		%
Impact Factor Type	Standard - AASHTO	
Template Indicator	false	
Bridge Completely Defined Indicator	false	
LRFD Multiple Presence Factors Reduce Based On ADTT Indicator	false	
Traffic ADT		
Directional Percent		%
Traffic Design ADTT		
Custom Agency Field One		
Custom Agency Field Two		
Custom Agency Field Three		
Custom Agency Field Four		
Custom Agency Field Five		
Custom Agency Field Six		
Custom Agency Field Seven		
Custom Agency Field Eight		
Custom Agency Field Nine		
Custom Agency Field Ten		
Fatigue Importance Factor	Main Arterial, Interstate, Other	
Importance Factor Override Indicator	false	
Importance Factor Override		
Expected Annual ADTTSL Growth Rate		
Initial ADTTSL		
Present ADTTSL		
Limit ADTTSL		
Feature Intersected	US 23	
Facility Carried	Monroe St (SR 51)	
Location	Monroe SR 51 over USR 23	
Year Built	1960	
Length	281.50	ft
Route Number	00051	
Mile/Km Post	12.85	mi
Average Daily Traffic Total		
Truck Percent		
Latitude		Degrees
Longitude		Degrees
Current Bridge Alt Name	Bridge Alt	
Existing Bridge Alt Name	Bridge Alt	

Appurtenances

Concrete Parapet

Name	South Rail - Mod BR-2-15	
Description	Approc. fence and BrR as Centroid	
Si Or Us Type	US Customary	
X1	18.0000	in
X2	0.0000	in
X3	0.0000	in
Y1	0.0000	in
Y2	24.0000	in
Y3	0.0000	in
Y4	0.0000	in
Distance To Center Of Gravity	9.0000	in
Additional Load	0.141	kip/ft
Concrete Density	0.1500	kcf

Concrete Parapet

Name	North Rail -Straigh w/ Fence only	
Description		
Si Or Us Type	US Customary	
X1	13.5000	in
X2	0.0000	in
X3	0.0000	in
Y1	0.0000	in
Y2	0.0000	in
Y3	0.0000	in
Y4	24.0000	in
Distance To Center Of Gravity	6.0000	in
Additional Load	0.112	kip/ft
Concrete Density	0.1500	kcf

Concrete Median

Name	Median - Mod BR-2-15	
Description		
Si Or Us Type	US Customary	
X1	0.0000	in
X2	0.0000	in
X3	13.5000	in
X4	0.0000	in
X5	0.0000	in
Y1	24.0000	in
Y2	0.0000	in
Y3	0.0000	in
Distance To Center Of Gravity	7.7500	in
Additional Load	0.051	kip/ft
Concrete Density	0.1500	kcf

Materials

Concrete Material

Name	Class QC2	
Description	Class QC2 Concrete	
Si Or Us Type	US Customary	
28 Day Compressive Strength	4.500	ksi
Initial Compressive Strength		ksi
Coefficient Of Thermal Expansion	0.0000060000	1/F
Density For DL	0.150	kcf
Density For Modulus Of Elasticity	0.145	kcf
Std Modulus Of Elasticity	3644.15	ksi
Poissons Ratio	0.200	
Modulus Of Rupture	0.480	ksi
Composition Type	Normal	
Shear Factor	1.000	
Std Initial Modulus Of Elasticity		ksi
LRFD Modulus Of Elasticity	3644.15	ksi
LRFD Initial Modulus Of Elasticity		ksi
Splitting Tensile Strength		ksi

Structural Steel Material

Name	Structural Steel (1991 to Present)	
Description	ASTM A 572	
Si Or Us Type	US Customary	
Yield strength	50.000	ksi
Tensile Strength	65.000	ksi

Toughness		ksi
Coefficient Of Thermal Expansion	0.0000065000	1/F
Density	0.4900	kcf
Modulus Of Elasticity	29000.00	ksi

Structural Steel Material

Name	ASTM A373 32 ksi	
Description	32 ksi circa 1950 +	
Si Or Us Type	US Customary	
Yield strength	32.000	ksi
Tensile Strength	58.000	ksi
Toughness		ksi
Coefficient Of Thermal Expansion	0.0000065000	1/F
Density	0.4900	kcf
Modulus Of Elasticity	29000.00	ksi

Reinforcing Steel Material

Name	Reinforcing Steel 1984 to Now	
Description	60 ksi reinforcing steel	
Si Or Us Type	US Customary	
Yield Strength	60.000	ksi
Modulus Of Elasticity	29000.00	ksi
Reinforcing Bar Type	Plain	
Ultimate Strength	70.000	ksi

Beam Shapes

Steel Beam Shapes

Steel Angle

Name	L 3x3x5/16	
Description	L 3x3x5/16 Imported from AISC Tables (2011)	
Angle Size1	3.0000	in
Angle Size2	3.0000	in
Angle Thickness	0.3130	in
Nominal Load	6.100	lb/ft
K		in
Area	1.780	in^2
Ixx	1.500	in^4
Yxx	0.8600	in
Iyy	1.500	in^4
Xyy	0.8600	in
Zztantheta		
Si or Us type	US Customary	

Steel Angle

Name	L 4x4x5/16	
Description	L 4x4x5/16 Imported from AISC Tables (2011)	
Angle Size1	4.0000	in
Angle Size2	4.0000	in
Angle Thickness	0.3130	in
Nominal Load	8.200	lb/ft
K		in
Area	2.400	in^2
Ixx	3.670	in^4
Yxx	1.1100	in
Iyy	3.670	in^4
Xyy	1.1100	in
Zztantheta		
Si or Us type	US Customary	

Steel Angle

Name	L 3-1/2x3-1/2x3/8	
Description	L 3-1/2x3-1/2x3/8 Imported from AISC Tables (2011)	
Angle Size1	3.5000	in
Angle Size2	3.5000	in
Angle Thickness	0.3750	in
Nominal Load	8.500	lb/ft
K		in
Area	2.500	in^2
Ixx	2.860	in^4

Yxx	1.0000	in
Iyy	2.860	in^4
Xyy	1.0000	in
Zztantheta		
Si or Us type	US Customary	

Steel Channel

Name	MC 18x42.7	
Description	MC 18x42.7 Imported from AISC Tables (2011)	
Channel Type	Misc. Channel	
Nominal Load	42.700	lb/ft
Area	12.600	in^2
Depth	18.0000	in
Web Thickness Tw	0.4500	in
Flange Width Bf	3.9500	in
Average Flange Thickness Tf	0.6250	in
Distance K	1.4400	in
Grip		in
Maximum Flange Fastener		in
X Bar	0.8770	in
Eo	0.9690	in
Ixx	554.000	in^4
Iyy	14.300	in^4
Si or Us type	US Customary	

Steel I Shape

Name	W 36x230	
Description	W 36x230 Imported from AISC Tables (1994)	
Shape Type	W Shape	
Nominal Depth	36.0000	in
Nominal Weight Or Mass	230.000	lb/ft
Jumbo Shape Indicator	false	
Area	67.600	in^2
Depth	35.9000	in
Web Thickness Tw	0.7600	in
Flange Width Bf	16.4700	in
Flange Thickness Tf	1.2600	in
Distance K	2.3750	in
Distance K		in
Ixx	15000.000	in^4
Iyy	940.000	in^4
Zx	943.000	in^3
Zy	176.000	in^3
Si or Us type	US Customary	

Steel I Shape

Name	W 36x231	
Description	W 36x231 Imported from AISC Tables (2011)	
Shape Type	W Shape	
Nominal Depth	36.0000	in
Nominal Weight Or Mass	231.000	lb/ft
Jumbo Shape Indicator	false	
Area	68.200	in^2
Depth	36.5000	in
Web Thickness Tw	0.7600	in
Flange Width Bf	16.5000	in
Flange Thickness Tf	1.2600	in
Distance K	2.2100	in
Distance K	1.5625	in
Ixx	15600.000	in^4
Iyy	940.000	in^4
Zx	963.000	in^3
Zy	176.000	in^3
Si or Us type	US Customary	

Steel I Shape

Name	W 36x170	
Description	W 36x170 Imported from AISC Tables (1994)	
Shape Type	W Shape	
Nominal Depth	36.0000	in
Nominal Weight Or Mass	170.000	lb/ft
Jumbo Shape Indicator	false	

Area	50.000	in^2
Depth	36.1700	in
Web Thickness Tw	0.6800	in
Flange Width Bf	12.0300	in
Flange Thickness Tf	1.1000	in
Distance K	2.0000	in
Distance K		in
Ixx	10500.000	in^4
Iyy	320.000	in^4
Zx	668.000	in^3
Zy	83.800	in^3
Si or Us type	US Customary	

PS Beam Shapes

PS I Beam Shapes

PS Box Beam Shapes

Timber Beam Shapes

Rectangular Timber Beam Shapes

LRFD Multiple Presence Factors

Greater Than Indicator	Number Loaded Lanes	Multiple Presence Factor
False	1	1.200
False	2	1.000
False	3	0.850
True	3	0.650

Factors

Environmental Condition

Default Parameter Indicator	true	
Si Or Us Type	SI / Metric	
Base Design Wind Velocity	99.42	mph
Wind Open Country Friction Velocity	8.20	mph
Wind Open Country Friction Length	0.23	ft
Wind Suburban Friction Velocity	10.94	mph
Wind Suburban Friction Length	3.28	ft
Wind City Friction Velocity	11.99	mph
Wind City Friction Length	8.20	ft
Windward Pressure Arch Column Truss	0.050	ksf
Windward Pressure Beam	0.050	ksf
Windward Pressure Flat Surface	0.040	ksf
Leeward Pressure Arch Column Truss	0.025	ksf
Leeward Pressure Beam		ksf
Leeward Pressure Flat Surface		ksf
Wind Vertical Upward Pressure	0.020	ksf
Wind Pressure Substructure	0.040	ksf
Climate Type	Moderate	
Setting Temperature		F
Moderate Steel Aluminum Min Temperature	-0.40	F
Moderate Steel Aluminum Max Temperature	122.00	F
Moderate Concrete Min Temperature	10.40	F
Moderate Concrete Max Temperature	80.60	F
Moderate Wood Min Temperature	10.40	F
Moderate Wood Max Temperature	75.20	F
Cold Steel Aluminum Min Temperature	-31.00	F
Cold Steel Aluminum Max Temperature	122.00	F
Cold Concrete Min Temperature	-0.40	F
Cold Concrete Max Temperature	80.60	F
Cold Wood Min Temperature	-0.40	F
Cold Wood Max Temperature	75.20	F
Stream Flow Skew Angle		Degrees
Longitudinal Drag Coefficient Semicircular Nosed	0.700	
Longitudinal Drag Coefficient Square Nosed	1.400	
Longitudinal Drag Coefficient Lodged Debris	1.400	
Longitudinal Drag Coefficient Wedge Nosed	0.800	
Upstream Surface Condition Type	Open Country	
Reference Height Wind Velocity	99.42	mph
Simplified Transverse Wind On LL	0.1000	kip/ft

Simplified Longitudinal Wind On LL	0.0400	kip/ft
Simplified Transverse Wind On Superstructure	0.0501	ksf
Simplified Longitudinal Wind On Superstructure	0.0125	ksf
Wind Load Basis Type	Gust Speed	
Wind Gust Wind Exposure Type	B	
Strength V Three Second Gust Speed		mph
Service I Three Second Gust Speed		mph
Gust Effect Factor Sound Barrier		
Gust Effect Factor Other		
Gust Windward Drag Coefficient I Box Girder Super		
Gust Leeward Drag Coefficient I Box Girder Super		
Gust Windward Drag Coefficient Truss Col Arch Sharp		
Gust Leeward Drag Coefficient Truss Col Arch Sharp		
Gust Windward Drag Coefficient Truss Col Arch Round		
Gust Leeward Drag Coefficient Truss Col Arch Round		
Gust Windward Drag Coefficient Bridge Sub		
Gust Leeward Drag Coefficient Bridge Sub		
Gust Windward Drag Coefficient Sound Barrier		
Gust Leeward Drag Coefficient Sound Barrier		
Gust Strength III Vertical Upward Pressure		ksf
Gust Service IV Vertical Upward Pressure		ksf
Gust Simplified Trans Super Pct Computed		%
Gust Simplified Long Super Pct Trans		%
Gust Simplified Trans Wind On Live Load		kip/ft
Gust Simplified Long Wind On Live Load		kip/ft

Wind Effect

Skew Angle (Degrees)	Normal Component On Live Load (kip/ft)	Parallel Component On Live Load (kip/ft)	Base Pressure Arch Column Truss Lateral (ksf)	Base Pressure Arch Column Truss Longitudinal (ksf)	Base Pressure Girder Lateral (ksf)	Base Pressure Girder Longitudinal (ksf)	Gust Normal Component On Live Load (kip/ft)	Gust Parallel Component On Live Load (kip/ft)	Gust Skew Coefficient Arch Col Truss Lat	Gust Skew Coefficient Arch Col Truss Long	Gust Skew Coefficient Girder Lat	Gust Skew Coefficient Girder Long
0.00	0.100	0.000	0.075	0.000	0.050	0.000						
15.00	0.088	0.012	0.071	0.013	0.044	0.006						
30.00	0.082	0.024	0.065	0.027	0.042	0.013						
45.00	0.066	0.032	0.048	0.042	0.033	0.017						
60.00	0.034	0.038	0.023	0.050	0.017	0.019						

Stream Flow Effect

Skew Angle Operator Type	Skew Angle (Degrees)	Lateral Drag Coefficient
=	0.00	0.000
=	5.00	0.500
=	10.00	0.700
=	20.00	0.900
>=	30.00	1.000

Water Level

Design Water Level Name	Consider This Water Level Indicator	Water Elevation (ft)	Design Velocity (ft/sec)	Scour Elevation (ft)	Consider Ice Dynamic Indicator	Consider Ice Hanging Dam Indicator	Consider Ice Jam Indicator	Consider Ice Adhesion Indicator
Low								
Mean								
Design Flood								
Check Flood								

Design Parameters

Longitudinal force load distribution type	Fixed & Expansion - Simplified
Transverse force load distribution type	Fixed & Expansion Bearings
Consider induced vertical reaction indicator	true

Superstructures Definitions

Girder System Structure Def

Name	Superstructure Diaph	
Description		
Dead Load 2 Distribution Type	Uniformly to All Girders	
Dead Load 1 Distribution Type	Tributary Area	
Modular Ratio Sustained Factor	3.000	
Deck Crack Control Parameter Z		kip/in
Girder Spacing Display Type	Perpendicular	
Frame Structure Simplified Definition Indicator	false	
LRFD - Override Truck Fraction		
LRFD - Lanes Available to Trucks		
LRFD - Override Truck Fraction Indicator	false	
Deck Exposure Factor		
Horizontal Curvature Indicator	false	
Curve Superstructure Alignment Type	Curved	
Distance from PC to First Support Line		ft
Curve Start Tangent Length		ft
Curve Radius		ft
Curve Direction Type	Left	
Curve End Tangent Length		ft
Curve Design Speed		mph
Curve Superelevation		%
Distance From Left-most Girder To Structure Def Ref Line		ft
Distance From Last Support Line to PT		ft
Modeling Type	Multi Girder System	
NBI Material Type	Concrete	
NBI Construction Type	Slab	
Super Structure Service Life		
Impact Factor Adjustment		
Impact Factor Override		%
LRFD Constant Impact Factor	33.0	%
LRFD Fatigue Impact Factor	15.0	%
Impact Factor Type	Standard - AASHTO	
Average Humidity	70.000	%
Consider Effective Slab Thickness For Rating Indicator	true	
Consider Effective Slab Thickness For Design Indicator	true	
Consider Wearing Surface For Rating Indicator	true	
Consider Wearing Surface For Design Indicator	true	
LFD Model Non-Composite Regions As Non-Composite Indicator	true	
LRFD Model Non-Composite Regions As Non-Composite Indicator	false	
LRFR Model Non-Composite Regions As Non-Composite Indicator	false	
System Of Units	US Customary	
Default Analysis Method	LFD	
Number Of Girders	14	
Number Of Spans	4	

Span Lengths

Span	Length (ft)
1	52.0000
2	86.5000
3	86.5000
4	52.0000

Load Case Description

Name	Description	Stage Name	Load Type	Load Application Time (Days)
DC1	DC acting on non-composite section	Non-composite (Stage 1)	D,DC	
DC2	DC acting on long-term composite section	Composite (long term) (Stage 2)	D,DC	
DW	DW acting on long-term composite section	Composite (long term) (Stage 2)	D,DW	
SIP Forms	Weight due to stay-in-place forms	Non-composite (Stage 1)	D,DC	

Bracing Spec Check Selection

Structure Framing Plan Details

Support Skew

Support Number	Frame Connections Indicator	Skew (Degrees)
1	FALSE	-3.1750
2	FALSE	-3.1750
3	FALSE	-3.1750
4	FALSE	-3.1750
5	FALSE	-3.1750

Girder Spacings

Girder Bay Number	Start Spacing (ft)	End Spacing (ft)
1	7.25	7.25
2	7.25	7.25
3	7.25	7.25
4	7.25	7.25
5	4.00	4.00
6	7.25	7.25
7	7.25	7.25
8	7.25	7.25
9	7.25	7.25
10	6.00	6.00
11	6.00	6.00
12	6.00	6.00
13	6.00	6.00

Diaphragm Locations

Bay Number: 1

Left Member Distance (ft)	Number of Spaces	Right Member Distance (ft)	Spacing	Weight (kip)
11.85	1	11.44	0.00	0.1400
11.85	23	11.44	11.08	0.1400

Bay Number: 2

Left Member Distance (ft)	Number of Spaces	Right Member Distance (ft)	Spacing	Weight (kip)
11.44	1	11.04	0.00	0.1400
11.44	23	11.04	11.08	0.1400

Bay Number: 3

Left Member Distance (ft)	Number of Spaces	Right Member Distance (ft)	Spacing	Weight (kip)
11.04	1	10.64	0.00	0.1400
11.04	23	10.64	11.08	0.1400

Bay Number: 4

Left Member Distance (ft)	Number of Spaces	Right Member Distance (ft)	Spacing	Weight (kip)
10.64	1	10.24	0.00	0.1400
10.64	23	10.24	11.08	0.1400

Bay Number: 5

Left Member Distance (ft)	Number of Spaces	Right Member Distance (ft)	Spacing	Weight (kip)
11.15	1	10.93		

11.15	23	10.93	11.08

Bay Number: 6

Left Member Distance (ft)	Number of Spaces	Right Member Distance (ft)	Spacing	Weight (kip)
11.85	1	11.44	0.00	0.1400
11.85	23	11.44	11.08	0.1400

Bay Number: 7

Left Member Distance (ft)	Number of Spaces	Right Member Distance (ft)	Spacing	Weight (kip)
11.44	1	11.04	0.00	0.1400
11.44	23	11.04	11.08	0.1400

Bay Number: 8

Left Member Distance (ft)	Number of Spaces	Right Member Distance (ft)	Spacing	Weight (kip)
11.04	1	10.64	0.00	0.1400
11.04	23	10.64	11.08	0.1400

Bay Number: 9

Left Member Distance (ft)	Number of Spaces	Right Member Distance (ft)	Spacing	Weight (kip)
10.64	1	10.24	0.00	0.1400
10.64	23	10.24	11.08	0.1400

Bay Number: 10

Left Member Distance (ft)	Number of Spaces	Right Member Distance (ft)	Spacing	Weight (kip)
10.24	1	9.90	0.00	0.2270
10.24	23	9.90	11.08	0.2270

Bay Number: 11

Left Member Distance (ft)	Number of Spaces	Right Member Distance (ft)	Spacing	Weight (kip)
9.90	1	9.57	0.00	0.2270
9.90	23	9.57	11.08	0.2270

Bay Number: 12

Left Member Distance (ft)	Number of Spaces	Right Member Distance (ft)	Spacing	Weight (kip)
9.57	1	9.24	0.00	0.2270
9.57	23	9.24	11.08	0.2270

Bay Number: 13

Left Member Distance (ft)	Number of Spaces	Right Member Distance (ft)	Spacing	Weight (kip)
9.24	1	8.91	0.00	0.2270
9.24	23	8.91	11.08	0.2270

Structure Typical Section

Concrete Deck

Total Deck Thickness	8.5000	in
Distance	0.00	ft
Length	277.00	ft
Width Left Start	-33.50	ft
Width Right Start	57.33	ft
Width Left End	-33.50	ft
Width Right End	57.33	ft
Straight Edge Indicator	false	
Continuous Over More Than Two Spans Indicator	false	
Deck Concrete Name	Class QC2	
Deck Type	Concrete	

Concrete Appurtenances

Name	Face Left Indicator	Offset At Start (ft)	Offset At End (ft)	Load Case Name	Measured To Front Face Indicator	Offset Reference Type
North Rail -Straigh w/ Fence only	FALSE	0.17	0.17	DC2	False	Left Edge
South Rail - Mod BR-2-15	TRUE	0.17	0.17	DC2	False	Right Edge
Median - Mod BR-2-15	FALSE	16.04	16.04	DC2	False	Left Edge

Travelway

Distance (ft)	Length (ft)	Number Of Lanes	Offset Left Start (ft)	Offset Left End (ft)	Offset Right Start (ft)	Offset Right End (ft)
0.00	277.00	5	-16.33	-16.33	55.67	55.67

Wearing Surface

Wearing Surface Material Name		
Wearing Surface Description		
Wearing Surface Density	pcf	
Wearing Surface Thickness	in	
Wearing Surface Load Case Name		

Girder Member

Name	G1	
Description		
Creation Timestamp		
Last Modified Timestamp		
Pedestrain Live Load Force		lb/ft
Member Alternative Name-Current	G1 Alt	
Member Alternative Name-Existing	G1 Alt	

Member Loads

Concentrated Member Loads

Distance (ft)	Description	Force X (kip)	Force Y (kip)	Load Case Name	Moment Z (kip-ft)	Percent of Load Flexure (%)	Percent of Load Shear (%)
0.46	Abut Pil		5.89	DC2		100.00	100.00
276.54	Abut Pil		5.89	DC2		100.00	100.00
52.00	Int Pil		3.68	DC2		100.00	100.00
109.67	Int Pil		3.68	DC2		100.00	100.00
167.33	Int Pil		3.68	DC2		100.00	100.00
225.00	Int Pil		3.68	DC2		100.00	100.00
26.83	Light Post		1.69	DC2		100.00	100.00
79.33	Light Post		1.69	DC2		100.00	100.00
138.50	Light Post		1.69	DC2		100.00	100.00
197.67	Light Post		1.69	DC2		100.00	100.00
250.17	Light Post		1.69	DC2		100.00	100.00

Settlement

Load Case	Support Number	X Translation Settlement (in)	Y Translation Settlement (in)	Z Rotation Settlement (Radians)
	1			
	2			
	3			
	4			
	5			

Supports

General

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

Elastic

Override Z Rot Spring Const Indicator	Support Number	X Rotation Spring Constant (kip-in/rad)	X Translation Spring Constant (kip/ft)	Y Rotation Spring Constant (kip-in/rad)	Y Translation Spring Constant (kip/ft)	Z Rotation Spring Constant (kip-in/rad)	Z Translation Spring Constant (kip/ft)
False	1						
False	2						
False	3						
False	4						
False	5						

ThreeD General

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

ThreeD Elastic

Support Number	X Rotation Spring Constant (kip-in/rad)	X Translation Spring Constant (kip/ft)	Y Rotation Spring Constant (kip-in/rad)	Y Translation Spring Constant (kip/ft)	Z Rotation Spring Constant (kip-in/rad)	Z Translation Spring Constant (kip/ft)	Override Z Rot Spring Const Indicator
1							False
2							False
3							False
4							False
5							False

Member Alt - Steel Rolled Beam - Schd

Name	G1 Alt
Description	
Creation Timestamp	
Last Modified Timestamp	
System Of Units	US Customary
Default Rating Method	LFD
LFD Single LL Factor Moment	1.247
LFD Single LL Factor Shear	1.247
LFD Single LL Factor Shear At Supports	0.000
LFD Single LL Factor Deflection	0.143
LFD Multi LL Factor Moment	1.247
LFD Multi LL Factor Shear	1.247

LFD Multi LL Factor Shear At Supports	0.000	
LFD Multi LL Factor Deflection	0.536	
Haunch Embedded Flange Indicator	false	
ASD Opr Rebar Factor		
ASD Opr Concrete Factor		
Haunch Type	Flange edges	
Deck Curing Method Type	Moist-cured	
ASD Inv PS Concrete Compr Factor		
ASD Inv PS Concrete Tens Factor:		
ASD Inv PS Concrete Mom Cap Factor		
ASD Opr PS Concrete Tens Factor		
ASD Opr PS Concrete Mom Cap Factor		
Deck Interface Type	Monolithic	
Deck Cohesion Factor	0.400	ksi
Deck Friction Factor	1.400	
Deck Interface Width		in
Default Interface Width To Beam Width Indicator	false	
Service Life	75.00	Years
Time Composite		Days
Time Analysis		Years
Time Continuous		Days
Deck Drying Time		Days
Deck Differential Shrinkage Indicator	false	
Beam Projection Start	9.0000	in
Beam Projection End	9.0000	in
Distribution Factor Input Method Type	Simplified	
Sufficiently connected to act as a unit	false	
Deck K1	0.250	
Deck K2	1.500	ksi
LFD DF for Permit Loads With Routine Traffic Indicator	true	
LRFD DF for Permit Loads With Routine Traffic Indicator	true	
LRFD Distribution Factor Input Method Type	Simplified	
Default Bolt Name		
Default Deck Concrete Name	Class QC2	
Default Deck Reinf Steel Name	Reinforcing Steel 1984 to Now	
Default Structural Steel Name	Structural Steel (1991 to Present)	
Default Weld Name		
Default Stirrup Reinf Steel Name		
Default Beam Reinf Steel Name		
Default Prestress Tendons Name		
Override LFD Factor Name		
Override LRFD Factor Name		
Override LRFR Factor Name		
LRFD Allow Moment Redistribution Indicator	false	
LRFD Allow Plastic Redistribution Indicator	false	
LRFD Use Appendix A6 For Flexural Resistance Indicator	false	
LRFR Allow Moment Redistribution Indicator	false	
LRFR Allow Plastic Redistribution Indicator	false	
LRFR Use Appendix A6 For Flexural Resistance Indicator	false	
LRFR Evaluate Remaining Fatigue Life Indicator	false	
LRFR Consider Flange Lateral Bending Stress Indicator	false	
LFD Allow Moment Redistribution Indicator	false	
LFD Include Bearing Stiffeners In Rating Indicator	true	
LRFD Ignore Long Reinf In Negative Moment Capacity	false	
LRFR Ignore Long Reinf In Negative Moment Capacity	false	
LFD Ignore Long Reinf In Negative Moment Capacity	false	
ASD Ignore Long Reinf In Negative Moment Capacity	false	
LRFD POI Generated At Stiffeners Indicator	false	
LRFR POI Generated At Stiffeners Indicator	false	
LFD Allow Plastic Analysis of Cover Plate Indicator	false	
LFD Ignore Shear Indicator	false	
Simple DL Continuous LL Indicator	false	
ASD Consider Deck Reinf Development Length Indicator	false	
LFD Consider Deck Reinf Development Length Indicator	false	
LRFR Consider Deck Reinf Development Length Indicator	false	
LRFD Consider Deck Reinf Development Length Indicator	false	
LRFR Consider Tension-Field Action in Stiffened Web End Panels	false	
LFD Consider Tension-Field Action in Stiffened Web End Panels	false	
LFD Use LRFD Shear Resistance for Curved Stiffened Interior Web Panels	false	
ASD Consider Tension-Field Action in Stiffened Web End Panels	false	
Cross Section Based Indicator	false	
Beam Projection Start	9.0000	in
Beam Projection End	9.0000	in
Impact Factor Type	Standard - AASHTO	
Impact Factor Adjustment	0.000	
Impact Factor Override	0.0	%
LRFD Constant Impact Factor	33.0	%

LRFD Fatigue Impact Factor	15.0	%
ASD Inv Rebar Factor		
ASD Inv Concrete Factor		
ASD Inv Structural Steel Factor		
ASD Inv Stirrup Factor		
ASD Inv Bearing Stiffener Factor		
ASD Opr Rebar Factor		
ASD Opr Concrete Factor		
ASD Opr Structural Steel Factor		
ASD Opr Stirrup Factor		
ASD Opr Bearing Stiffener Factor		
ASD Opr Timber Allow Stress Percent		
Default Rating Method	LFD	
LRFR Condition Factor	Good or Satisfactory	
LRFR System Factor Override	All Other Girder/Slab Bridges	
LRFD POI Tenth Points Indicator	true	
LRFR POI Tenth Points Indicator	true	
LFD POI Tenth Points Indicator	true	
ASD POI Tenth Points Indicator	true	
LRFD POI Section Change Points Indicator	true	
LRFR POI Section Change Points Indicator	true	
LFD POI Section Change Points Indicator	true	
ASD POI Section Change Points Indicator	true	
LRFD POI User-Defined Points Indicator	true	
LRFR POI User-Defined Points Indicator	true	
LFD POI User-Defined Points Indicator	true	
ASD POI User-Defined Points Indicator	true	
LRFD Distribution Factor Application Method Type	By Point of Interest	
LRFR Distribution Factor Application Method Type	By Point of Interest	
LFD Distribution Factor Input Method Type	By Point of Interest	
LRFR Field Measured Section Properties Indicator	false	
LRFR System Factor Override	false	
Self Load Case Name	true	
Additional Self Load		kip/ft
Additional Self Load Percentage		%
Default Nail Name		

Import Event

LRFD Live Load Distribution Factors

Action Type	Distance (ft)	Length (ft)	Single Lane Factor	Multi Lane Factor	Start Single Lane Factor	End Single Lane Factor	Start Multi Lane Factor	End Multi Lane Factor	Factor Variaton Type
Deflection	0.00	277.000	0.086	0.232	0.000	0.000	0.000	0.000	Constant
Moment	0.00	32.226	0.215	0.434	0.000	0.000	0.000	0.000	Constant
Shear	0.00	26.000	0.215	0.323	0.000	0.000	0.000	0.000	Constant
Shear	26.00	2.600	0.215	0.323	0.000	0.000	0.000	0.000	Constant
Shear	28.60	5.200	0.216	0.323	0.000	0.000	0.000	0.000	Constant
Moment	32.23	35.249	0.215	0.419	0.000	0.000	0.000	0.000	Constant
Shear	33.80	5.200	0.216	0.324	0.000	0.000	0.000	0.000	Constant
Shear	39.00	5.200	0.217	0.324	0.000	0.000	0.000	0.000	Constant
Shear	44.20	5.200	0.217	0.325	0.000	0.000	0.000	0.000	Constant
Shear	49.40	2.600	0.217	0.326	0.000	0.000	0.000	0.000	Constant
Shear	52.00	43.250	0.215	0.323	0.000	0.000	0.000	0.000	Constant
Moment	67.47	50.755	0.215	0.390	0.000	0.000	0.000	0.000	Constant
Shear	95.25	4.325	0.215	0.323	0.000	0.000	0.000	0.000	Constant
Shear	99.58	8.650	0.216	0.323	0.000	0.000	0.000	0.000	Constant
Shear	108.23	8.650	0.216	0.324	0.000	0.000	0.000	0.000	Constant
Shear	116.88	8.650	0.217	0.325	0.000	0.000	0.000	0.000	Constant
Moment	118.23	40.695	0.215	0.402	0.000	0.000	0.000	0.000	Constant
Shear	125.53	8.650	0.217	0.325	0.000	0.000	0.000	0.000	Constant
Shear	134.18	4.325	0.218	0.326	0.000	0.000	0.000	0.000	Constant
Shear	138.50	43.250	0.215	0.323	0.000	0.000	0.000	0.000	Constant
Moment	158.92	50.317	0.215	0.390	0.000	0.000	0.000	0.000	Constant
Shear	181.75	4.325	0.215	0.323	0.000	0.000	0.000	0.000	Constant
Shear	186.08	8.650	0.216	0.323	0.000	0.000	0.000	0.000	Constant
Shear	194.73	8.650	0.216	0.324	0.000	0.000	0.000	0.000	Constant
Shear	203.38	8.650	0.217	0.325	0.000	0.000	0.000	0.000	Constant
Moment	209.24	35.757	0.215	0.429	0.000	0.000	0.000	0.000	Constant
Shear	212.03	8.650	0.217	0.325	0.000	0.000	0.000	0.000	Constant

Shear	220.68	4.325	0.218	0.326	0.000	0.000	0.000	0.000	Constant
Shear	225.00	26.000	0.215	0.323	0.000	0.000	0.000	0.000	Constant
Moment	245.00	32.001	0.215	0.434	0.000	0.000	0.000	0.000	Constant
Shear	251.00	2.600	0.215	0.323	0.000	0.000	0.000	0.000	Constant
Shear	253.60	5.200	0.216	0.323	0.000	0.000	0.000	0.000	Constant
Shear	258.80	5.200	0.216	0.324	0.000	0.000	0.000	0.000	Constant
Shear	264.00	5.200	0.217	0.325	0.000	0.000	0.000	0.000	Constant
Shear	269.20	5.200	0.217	0.325	0.000	0.000	0.000	0.000	Constant
Shear	274.40	2.600	0.218	0.326	0.000	0.000	0.000	0.000	Constant

Steel Rolled Shape Range

Distance (ft)	Length (ft)	Steel Name	Steel Shape Name
0.00	52.00	ASTM A373 32 ksi	W 36x170
0.00	173.00	ASTM A373 32 ksi	W 36x230
0.00	52.00	ASTM A373 32 ksi	W 36x170

Steel Flange Cover Plate Ranges

Relative Position	Bolt Def Name	Num Of Bolts	Bolt Hole Pitch (in)	Bolt Hole Gage (in)	Side Weld Name	End Weld Name	Steel Name	Begin Width (in)	End Width (in)	Distance (ft)	Length (ft)	Thickness (in)
Top:1							ASTM A373 32 ksi	10.5000	10.5000	41.50	18.00	0.8750
Top:1							ASTM A373 32 ksi	15.0000	15.0000	77.00	19.00	0.6875
Top:1							ASTM A373 32 ksi	10.5000	10.5000	79.00	18.00	0.8750
Bottom:1							ASTM A373 32 ksi	18.0000	18.0000	41.50	18.00	0.6875
Bottom:1							ASTM A373 32 ksi	18.0000	18.0000	77.00	19.00	0.6875
Bottom:1							ASTM A373 32 ksi	18.0000	18.0000	79.00	18.00	0.8750

Deck Concrete Profile

Concrete Name	Distance (ft)	Structural Thickness (in)	Effective Width LRFD (in)	Effective Width Standard (in)	Length (ft)	Modular Ratio	Effective Width LRFD Start (in)	Effective Width Standard Start (in)	Effective Width LRFD End (in)	Effective Width Standard End (in)
Class QC2	0.00	8.5000	73.5000	73.5000	277.00	8.000	73.5000	73.5000	73.5000	73.5000

Deck Reinforcement Profile

Distance (ft)	Length (ft)	Number Of Bars	Bar Size	Rein Steel Name	Vert Distance (in)	Vert Distance Reference Type	Num Bars Std	Num Bars Lrfd	BarSpacing (in)
0.00	277.00	7.00	5	Reinforcing Steel 1984 to Now	2.4380	Bottom of Slab	7.00	7.00	10.0000
0.00	277.00	6.00	4	Reinforcing Steel 1984 to Now	2.7500	Top of Slab	6.00	6.00	12.5000
27.75	46.50	5.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	5.00	5.00	12.5000
30.25	46.50	5.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	5.00	5.00	12.5000
113.75	46.50	5.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	5.00	5.00	12.5000
116.75	46.50	5.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	5.00	5.00	12.5000
200.25	46.50	5.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	5.00	5.00	12.5000
203.25	46.50	5.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	5.00	5.00	12.5000

Shear Connector Profile

Connector Name	Distance (ft)	Length (ft)	Number Per Row	Number Of Spaces	Traverse Spacing (in)
	0.00	277.00			

Haunch Profile

Distance (ft)	Length (ft)	Y1 (in)	Y2 (in)	Y3 (in)	Z1 (in)	Z2 (in)	Z3 (in)	Z4 (in)
0.00	277.00	2.0000	-1.2600		0.0000	0.0000		

Lateral Support Range

Support Number	Distance (ft)	Length (ft)
1	0.00	277.00

Spec Selection

Analysis Method Type	Analysis Module	Selection Type	Spec Version Factors
ASD	AASHTO ASD	System Default	
LFD	AASHTO LFD	System Default	
LRFD	AASHTO LRFD	System Default	
LRFR	AASHTO LRFR	System Default	

Girder Member

Name	G2
Description	
Creation Timestamp	
Last Modified Timestamp	
Pedestrain Live Load Force	lb/ft
Member Alternative Name-Current	G2 Alt
Member Alternative Name-Existing	G2 Alt

Member Loads

Settlement

Load Case	Support Number	X Translation Settlement (in)	Y Translation Settlement (in)	Z Rotation Settlement (Radians)
	1			
	2			
	3			
	4			
	5			

Supports

General

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

Elastic

Override Z Rot Spring Const Indicator	Support Number	X Rotation Spring Constant (kip-in/rad)	X Translation Spring Constant (kip/ft)	Y Rotation Spring Constant (kip-in/rad)	Y Translation Spring Constant (kip/ft)	Z Rotation Spring Constant (kip-in/rad)	Z Translation Spring Constant (kip/ft)

False	1
False	2
False	3
False	4
False	5

ThreeD General

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

ThreeD Elastic

Support Number	X Rotation Spring Constant (kip-in/rad)	X Translation Spring Constant (kip/ft)	Y Rotation Spring Constant (kip-in/rad)	Y Translation Spring Constant (kip/ft)	Z Rotation Spring Constant (kip-in/rad)	Z Translation Spring Constant (kip/ft)	Override Z Rot Spring Const Indicator
1							False
2							False
3							False
4							False
5							False

Member Alt - Steel Rolled Beam - Schd

Name	G2 Alt	
Description		
Creation Timestamp		
Last Modified Timestamp		
System Of Units	US Customary	
Default Rating Method	LFD	
LFD Single LL Factor Moment	1.036	
LFD Single LL Factor Shear	1.036	
LFD Single LL Factor Shear At Supports	0.000	
LFD Single LL Factor Deflection	0.143	
LFD Multi LL Factor Moment	1.318	
LFD Multi LL Factor Shear	1.318	
LFD Multi LL Factor Shear At Supports	0.000	
LFD Multi LL Factor Deflection	0.536	
Haunch Embedded Flange Indicator	false	
ASD Opr Rebar Factor		
ASD Opr Concrete Factor		
Haunch Type	Flange edges	
Deck Curing Method Type	Moist-cured	
ASD Inv PS Concrete Compr Factor		
ASD Inv PS Concrete Tens Factor:		
ASD Inv PS Concrete Mom Cap Factor		
ASD Opr PS Concrete Tens Factor		
ASD Opr PS Concrete Mom Cap Factor		
Deck Interface Type	Monolithic	
Deck Cohesion Factor	0.400	ksi
Deck Friction Factor	1.400	
Deck Interface Width		in
Default Interface Width To Beam Width Indicator	false	
Service Life	75.00	Years
Time Composite		Days
Time Analysis		Years
Time Continuous		Days
Deck Drying Time		Days
Deck Differential Shrinkage Indicator	false	
Beam Projection Start	9.0000	in
Beam Projection End	9.0000	in
Distribution Factor Input Method Type	Simplified	
Sufficiently connected to act as a unit	false	
Deck K1	0.250	
Deck K2	1.500	ksi
LFD DF for Permit Loads With Routine Traffic Indicator	true	
LRFD DF for Permit Loads With Routine Traffic Indicator	true	

LRFD Distribution Factor Input Method Type	Simplified	
Default Bolt Name		
Default Deck Concrete Name	Class QC2	
Default Deck Reinf Steel Name	Reinforcing Steel 1984 to Now	
Default Structural Steel Name	Structural Steel (1991 to Present)	
Default Weld Name		
Default Stirrup Reinf Steel Name		
Default Beam Reinf Steel Name		
Default Prestress Tendons Name		
Override LFD Factor Name		
Override LRFD Factor Name		
Override LRFR Factor Name		
LRFD Allow Moment Redistribution Indicator	false	
LRFD Allow Plastic Redistribution Indicator	false	
LRFD Use Appendix A6 For Flexural Resistance Indicator	false	
LRFR Allow Moment Redistribution Indicator	false	
LRFR Allow Plastic Redistribution Indicator	false	
LRFR Use Appendix A6 For Flexural Resistance Indicator	false	
LRFR Evaluate Remaining Fatigue Life Indicator	false	
LRFR Consider Flange Lateral Bending Stress Indicator	false	
LFD Allow Moment Redistribution Indicator	false	
LFD Include Bearing Stiffeners In Rating Indicator	true	
LRFD Ignore Long Reinf In Negative Moment Capacity	false	
LRFR Ignore Long Reinf In Negative Moment Capacity	false	
LFD Ignore Long Reinf In Negative Moment Capacity	false	
ASD Ignore Long Reinf In Negative Moment Capacity	false	
LRFD POI Generated At Stiffeners Indicator	false	
LRFR POI Generated At Stiffeners Indicator	false	
LFD Allow Plastic Analysis of Cover Plate Indicator	false	
LFD Ignore Shear Indicator	false	
Simple DL Continuous LL Indicator	false	
ASD Consider Deck Reinf Development Length Indicator	false	
LFD Consider Deck Reinf Development Length Indicator	false	
LRFR Consider Deck Reinf Development Length Indicator	false	
LRFD Consider Deck Reinf Development Length Indicator	false	
LRFR Consider Tension-Field Action in Stiffened Web End Panels	false	
LFD Consider Tension-Field Action in Stiffened Web End Panels	false	
LFD Use LRFD Shear Resistance for Curved Stiffened Interior Web Panels	false	
ASD Consider Tension-Field Action in Stiffened Web End Panels	false	
Cross Section Based Indicator	false	
Beam Projection Start	9.0000	in
Beam Projection End	9.0000	in
Impact Factor Type	Standard - AASHTO	
Impact Factor Adjustment	0.000	
Impact Factor Override	0.0	%
LRFD Constant Impact Factor	33.0	%
LRFD Fatigue Impact Factor	15.0	%
ASD Inv Rebar Factor		
ASD Inv Concrete Factor		
ASD Inv Structural Steel Factor		
ASD Inv Stirrup Factor		
ASD Inv Bearing Stiffener Factor		
ASD Opr Rebar Factor		
ASD Opr Concrete Factor		
ASD Opr Structural Steel Factor		
ASD Opr Stirrup Factor		
ASD Opr Bearing Stiffener Factor		
ASD Opr Timber Allow Stress Percent		
Default Rating Method	LFD	
LRFR Condition Factor	Good or Satisfactory	
LRFR System Factor Override	All Other Girder/Slab Bridges	
LRFD POI Tenth Points Indicator	true	
LRFR POI Tenth Points Indicator	true	
LFD POI Tenth Points Indicator	true	
ASD POI Tenth Points Indicator	true	
LRFD POI Section Change Points Indicator	true	
LRFR POI Section Change Points Indicator	true	
LFD POI Section Change Points Indicator	true	
ASD POI Section Change Points Indicator	true	
LRFD POI User-Defined Points Indicator	true	
LRFR POI User-Defined Points Indicator	true	
LFD POI User-Defined Points Indicator	true	
ASD POI User-Defined Points Indicator	true	
LRFD Distribution Factor Application Method Type	By Point of Interest	
LRFR Distribution Factor Application Method Type	By Point of Interest	
LFD Distribution Factor Input Method Type	By Point of Interest	
LRFR Field Measured Section Properties Indicator	false	

LRFR System Factor Override	false	
Self Load Case Name	true	
Additional Self Load		kip/ft
Additional Self Load Percentage		%
Default Nail Name		

Import Event

LRFD Live Load Distribution Factors

Action Type	Distance (ft)	Length (ft)	Single Lane Factor	Multi Lane Factor	Start Single Lane Factor	End Single Lane Factor	Start Multi Lane Factor	End Multi Lane Factor	Factor Variaton Type
Deflection	0.00	277.000	0.086	0.232	0.000	0.000	0.000	0.000	Constant
Moment	0.00	32.236	0.493	0.658	0.000	0.000	0.000	0.000	Constant
Shear	0.00	26.000	0.650	0.761	0.000	0.000	0.000	0.000	Constant
Shear	26.00	2.600	0.650	0.762	0.000	0.000	0.000	0.000	Constant
Shear	28.60	5.200	0.651	0.763	0.000	0.000	0.000	0.000	Constant
Moment	32.24	35.256	0.464	0.635	0.000	0.000	0.000	0.000	Constant
Shear	33.80	5.200	0.653	0.764	0.000	0.000	0.000	0.000	Constant
Shear	39.00	5.200	0.654	0.765	0.000	0.000	0.000	0.000	Constant
Shear	44.20	5.200	0.655	0.767	0.000	0.000	0.000	0.000	Constant
Shear	49.40	2.600	0.656	0.768	0.000	0.000	0.000	0.000	Constant
Shear	52.00	43.250	0.650	0.761	0.000	0.000	0.000	0.000	Constant
Moment	67.49	50.710	0.424	0.591	0.000	0.000	0.000	0.000	Constant
Shear	95.25	4.325	0.650	0.762	0.000	0.000	0.000	0.000	Constant
Shear	99.58	8.650	0.651	0.763	0.000	0.000	0.000	0.000	Constant
Shear	108.23	8.650	0.653	0.765	0.000	0.000	0.000	0.000	Constant
Shear	116.88	8.650	0.654	0.766	0.000	0.000	0.000	0.000	Constant
Moment	118.20	40.709	0.437	0.609	0.000	0.000	0.000	0.000	Constant
Shear	125.53	8.650	0.655	0.767	0.000	0.000	0.000	0.000	Constant
Shear	134.18	4.325	0.657	0.769	0.000	0.000	0.000	0.000	Constant
Shear	138.50	43.250	0.650	0.761	0.000	0.000	0.000	0.000	Constant
Moment	158.91	50.335	0.424	0.591	0.000	0.000	0.000	0.000	Constant
Shear	181.75	4.325	0.650	0.762	0.000	0.000	0.000	0.000	Constant
Shear	186.08	8.650	0.651	0.763	0.000	0.000	0.000	0.000	Constant
Shear	194.73	8.650	0.653	0.765	0.000	0.000	0.000	0.000	Constant
Shear	203.38	8.650	0.654	0.766	0.000	0.000	0.000	0.000	Constant
Moment	209.25	35.771	0.475	0.651	0.000	0.000	0.000	0.000	Constant
Shear	212.03	8.650	0.656	0.768	0.000	0.000	0.000	0.000	Constant
Shear	220.68	4.325	0.656	0.769	0.000	0.000	0.000	0.000	Constant
Shear	225.00	26.000	0.650	0.761	0.000	0.000	0.000	0.000	Constant
Moment	245.02	31.983	0.493	0.658	0.000	0.000	0.000	0.000	Constant
Shear	251.00	2.600	0.650	0.762	0.000	0.000	0.000	0.000	Constant
Shear	253.60	5.200	0.651	0.763	0.000	0.000	0.000	0.000	Constant
Shear	258.80	5.200	0.653	0.764	0.000	0.000	0.000	0.000	Constant
Shear	264.00	5.200	0.654	0.766	0.000	0.000	0.000	0.000	Constant
Shear	269.20	5.200	0.655	0.768	0.000	0.000	0.000	0.000	Constant
Shear	274.40	2.600	0.657	0.769	0.000	0.000	0.000	0.000	Constant

Steel Rolled Shape Range

Distance (ft)	Length (ft)	Steel Name	Steel Shape Name
0.00	52.00	ASTM A373 32 ksi	W 36x170
0.00	173.00	ASTM A373 32 ksi	W 36x230
0.00	52.00	ASTM A373 32 ksi	W 36x170

Steel Flange Cover Plate Ranges

Relative Position	Bolt Def Name	Num Of Bolts	Bolt Hole Pitch (in)	Bolt Hole Gage (in)	Side Weld Name	End Weld Name	Steel Name	Begin Width (in)	End Width (in)	Distance (ft)	Length (ft)	Thickness (in)
Top:1							ASTM A373 32 ksi	10.5000	10.5000	41.50	18.00	0.8750

Top:1	ASTM A373 32 ksi	15.0000	15.0000	77.00	19.00	0.6875
Top:1	ASTM A373 32 ksi	10.5000	10.5000	79.00	18.00	0.8750
Bottom:1	ASTM A373 32 ksi	18.0000	18.0000	41.50	18.00	0.6875
Bottom:1	ASTM A373 32 ksi	18.0000	18.0000	77.00	19.00	0.6875
Bottom:1	ASTM A373 32 ksi	18.0000	18.0000	79.00	18.00	0.8750

Deck Concrete Profile

Concrete Name	Distance (ft)	Structural Thickness (in)	Effective Width LRFD (in)	Effective Width Standard (in)	Length (ft)	Modular Ratio	Effective Width LRFD Start (in)	Effective Width Standard Start (in)	Effective Width LRFD End (in)	Effective Width Standard End (in)
Class QC2	0.00	8.5000	87.0000	87.0000	277.00	8.000	87.0000	87.0000	87.0000	87.0000

Deck Reinforcement Profile

Distance (ft)	Length (ft)	Number Of Bars	Bar Size	Rein Steel Name	Vert Distance (in)	Vert Distance Reference Type	Num Bars Std	Num Bars Lrfd	BarSpacing (in)
0.00	277.00	8.00	5	Reinforcing Steel 1984 to Now	2.4380	Bottom of Slab	8.00	8.00	10.0000
0.00	277.00	7.00	4	Reinforcing Steel 1984 to Now	2.7500	Top of Slab	7.00	7.00	12.5000
27.25	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000
30.25	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000
113.75	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000
116.75	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000
200.25	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000
203.25	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000

Shear Connector Profile

Connector Name	Distance (ft)	Length (ft)	Number Per Row	Number Of Spaces	Traverse Spacing (in)
	0.00	277.00			

Haunch Profile

Distance (ft)	Length (ft)	Y1 (in)	Y2 (in)	Y3 (in)	Z1 (in)	Z2 (in)	Z3 (in)	Z4 (in)
0.00	277.00	2.0000						

Lateral Support Range

Support Number	Distance (ft)	Length (ft)
1	0.00	277.00

Spec Selection

Analysis Method Type	Analysis Module	Selection Type	Spec Version Factors
ASD	AASHTO ASD	System Default	
LFD	AASHTO LFD	System Default	
LRFD	AASHTO LRFD	System Default	

LRFR AASHTO LRFR System Default

Girder Member

Name G3
Description
Creation Timestamp
Last Modified Timestamp
Pedestrain Live Load Force lb/ft
Member Alternative Name-Current G3 Alt
Member Alternative Name-Existing G3 Alt

Member Loads

Settlement

Load Case	Support Number	X Translation Settlement (in)	Y Translation Settlement (in)	Z Rotation Settlement (Radians)
	1			
	2			
	3			
	4			
	5			

Supports

General

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

Elastic

Override Z Rot Spring Const Indicator	Support Number	X Rotation Spring Constant (kip-in/rad)	X Translation Spring Constant (kip/ft)	Y Rotation Spring Constant (kip-in/rad)	Y Translation Spring Constant (kip/ft)	Z Rotation Spring Constant (kip-in/rad)	Z Translation Spring Constant (kip/ft)
False	1						
False	2						
False	3						
False	4						
False	5						

ThreeD General

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

ThreeD Elastic

Support Number	X Rotation Spring Constant (kip-in/rad)	X Translation Spring Constant (kip/ft)	Y Rotation Spring Constant (kip-in/rad)	Y Translation Spring Constant (kip/ft)	Z Rotation Spring Constant (kip-in/rad)	Z Translation Spring Constant (kip/ft)	Override Z Rot Spring Const Indicator
1							False
2							False
3							False
4							False
5							False

Member Alt - Steel Rolled Beam - Schd

Name	G3 Alt	
Description		
Creation Timestamp		
Last Modified Timestamp		
System Of Units	US Customary	
Default Rating Method	LFD	
LFD Single LL Factor Moment	1.036	
LFD Single LL Factor Shear	1.036	
LFD Single LL Factor Shear At Supports	0.701	
LFD Single LL Factor Deflection	0.143	
LFD Multi LL Factor Moment	1.318	
LFD Multi LL Factor Shear	1.318	
LFD Multi LL Factor Shear At Supports	0.701	
LFD Multi LL Factor Deflection	0.536	
Haunch Embedded Flange Indicator	false	
ASD Opr Rebar Factor		
ASD Opr Concrete Factor		
Haunch Type	Flange edges	
Deck Curing Method Type	Moist-cured	
ASD Inv PS Concrete Compr Factor		
ASD Inv PS Concrete Tens Factor:		
ASD Inv PS Concrete Mom Cap Factor		
ASD Opr PS Concrete Tens Factor		
ASD Opr PS Concrete Mom Cap Factor		
Deck Interface Type	Monolithic	
Deck Cohesion Factor	0.400	ksi
Deck Friction Factor	1.400	
Deck Interface Width		in
Default Interface Width To Beam Width Indicator	false	
Service Life	75.00	Years
Time Composite		Days
Time Analysis		Years
Time Continuous		Days
Deck Drying Time		Days
Deck Differential Shrinkage Indicator	false	
Beam Projection Start	9.0000	in
Beam Projection End	9.0000	in
Distribution Factor Input Method Type	Simplified	
Sufficiently connected to act as a unit	false	
Deck K1	0.250	
Deck K2	1.500	ksi
LFD DF for Permit Loads With Routine Traffic Indicator	true	
LRFD DF for Permit Loads With Routine Traffic Indicator	true	
LRFD Distribution Factor Input Method Type	Simplified	
Default Bolt Name		
Default Deck Concrete Name	Class QC2	
Default Deck Reinf Steel Name	Reinforcing Steel 1984 to Now	
Default Structural Steel Name	Structural Steel (1991 to Present)	
Default Weld Name		
Default Stirrup Reinf Steel Name		
Default Beam Reinf Steel Name		
Default Prestress Tendons Name		
Override LFD Factor Name		
Override LRFD Factor Name		
Override LRFR Factor Name		
LRFD Allow Moment Redistribution Indicator	false	
LRFD Allow Plastic Redistribution Indicator	false	
LRFD Use Appendix A6 For Flexural Resistance Indicator	false	
LRFR Allow Moment Redistribution Indicator	false	
LRFR Allow Plastic Redistribution Indicator	false	
LRFR Use Appendix A6 For Flexural Resistance Indicator	false	
LRFR Evaluate Remaining Fatigue Life Indicator	false	
LRFR Consider Flange Lateral Bending Stress Indicator	false	
LFD Allow Moment Redistribution Indicator	false	
LFD Include Bearing Stiffeners In Rating Indicator	true	
LRFD Ignore Long Reinf In Negative Moment Capacity	false	
LRFR Ignore Long Reinf In Negative Moment Capacity	false	
LFD Ignore Long Reinf In Negative Moment Capacity	false	
ASD Ignore Long Reinf In Negative Moment Capacity	false	
LRFD POI Generated At Stiffeners Indicator	false	
LRFR POI Generated At Stiffeners Indicator	false	
LFD Allow Plastic Analysis of Cover Plate Indicator	false	
LFD Ignore Shear Indicator	false	
Simple DL Continuous LL Indicator	false	
ASD Consider Deck Reinf Development Length Indicator	false	

LFD Consider Deck Reinf Development Length Indicator	false	
LRFR Consider Deck Reinf Development Length Indicator	false	
LRFD Consider Deck Reinf Development Length Indicator	false	
LRFR Consider Tension-Field Action in Stiffened Web End Panels	false	
LFD Consider Tension-Field Action in Stiffened Web End Panels	false	
LFD Use LRFD Shear Resistance for Curved Stiffened Interior Web Panels	false	
ASD Consider Tension-Field Action in Stiffened Web End Panels	false	
Cross Section Based Indicator	false	
Beam Projection Start	9.0000	in
Beam Projection End	9.0000	in
Impact Factor Type	Standard - AASHTO	
Impact Factor Adjustment	0.000	
Impact Factor Override	0.0	%
LRFD Constant Impact Factor	33.0	%
LRFD Fatigue Impact Factor	15.0	%
ASD Inv Rebar Factor		
ASD Inv Concrete Factor		
ASD Inv Structural Steel Factor		
ASD Inv Stirrup Factor		
ASD Inv Bearing Stiffener Factor		
ASD Opr Rebar Factor		
ASD Opr Concrete Factor		
ASD Opr Structural Steel Factor		
ASD Opr Stirrup Factor		
ASD Opr Bearing Stiffener Factor		
ASD Opr Timber Allow Stress Percent		
Default Rating Method	LFD	
LRFR Condition Factor	Good or Satisfactory	
LRFR System Factor Override	All Other Girder/Slab Bridges	
LRFD POI Tenth Points Indicator	true	
LRFR POI Tenth Points Indicator	true	
LFD POI Tenth Points Indicator	true	
ASD POI Tenth Points Indicator	true	
LRFD POI Section Change Points Indicator	true	
LRFR POI Section Change Points Indicator	true	
LFD POI Section Change Points Indicator	true	
ASD POI Section Change Points Indicator	true	
LRFD POI User-Defined Points Indicator	true	
LRFR POI User-Defined Points Indicator	true	
LFD POI User-Defined Points Indicator	true	
ASD POI User-Defined Points Indicator	true	
LRFD Distribution Factor Application Method Type	By Point of Interest	
LRFR Distribution Factor Application Method Type	By Point of Interest	
LFD Distribution Factor Input Method Type	By Point of Interest	
LRFR Field Measured Section Properties Indicator	false	
LRFR System Factor Override	false	
Self Load Case Name	true	
Additional Self Load		kip/ft
Additional Self Load Percentage		%
Default Nail Name		

Import Event

LRFD Live Load Distribution Factors

Action Type	Distance (ft)	Length (ft)	Single Lane Factor	Multi Lane Factor	Start Single Lane Factor	End Single Lane Factor	Start Multi Lane Factor	End Multi Lane Factor	Factor Variaton Type
Deflection	0.00	277.000	0.086	0.232	0.000	0.000	0.000	0.000	Constant
Moment	0.00	32.249	0.493	0.658	0.000	0.000	0.000	0.000	Constant
Shear	0.00	26.000	0.650	0.761	0.000	0.000	0.000	0.000	Constant
Shear	26.00	2.600	0.650	0.762	0.000	0.000	0.000	0.000	Constant
Shear	28.60	5.200	0.651	0.763	0.000	0.000	0.000	0.000	Constant
Moment	32.25	35.258	0.464	0.635	0.000	0.000	0.000	0.000	Constant
Shear	33.80	5.200	0.653	0.764	0.000	0.000	0.000	0.000	Constant
Shear	39.00	5.200	0.654	0.765	0.000	0.000	0.000	0.000	Constant
Shear	44.20	5.200	0.655	0.767	0.000	0.000	0.000	0.000	Constant
Shear	49.40	2.600	0.656	0.768	0.000	0.000	0.000	0.000	Constant
Shear	52.00	43.250	0.650	0.761	0.000	0.000	0.000	0.000	Constant
Moment	67.51	50.672	0.424	0.591	0.000	0.000	0.000	0.000	Constant
Shear	95.25	4.325	0.650	0.762	0.000	0.000	0.000	0.000	Constant
Shear	99.58	8.650	0.651	0.763	0.000	0.000	0.000	0.000	Constant
Shear	108.23	8.650	0.653	0.765	0.000	0.000	0.000	0.000	Constant

Shear	116.88	8.650	0.654	0.766	0.000	0.000	0.000	0.000	Constant
Moment	118.18	40.708	0.437	0.609	0.000	0.000	0.000	0.000	Constant
Shear	125.53	8.650	0.655	0.767	0.000	0.000	0.000	0.000	Constant
Shear	134.18	4.325	0.657	0.769	0.000	0.000	0.000	0.000	Constant
Shear	138.50	43.250	0.650	0.761	0.000	0.000	0.000	0.000	Constant
Moment	158.89	50.371	0.424	0.591	0.000	0.000	0.000	0.000	Constant
Shear	181.75	4.325	0.650	0.762	0.000	0.000	0.000	0.000	Constant
Shear	186.08	8.650	0.651	0.763	0.000	0.000	0.000	0.000	Constant
Shear	194.73	8.650	0.653	0.765	0.000	0.000	0.000	0.000	Constant
Shear	203.38	8.650	0.654	0.766	0.000	0.000	0.000	0.000	Constant
Moment	209.26	35.769	0.475	0.651	0.000	0.000	0.000	0.000	Constant
Shear	212.03	8.650	0.656	0.768	0.000	0.000	0.000	0.000	Constant
Shear	220.68	4.325	0.656	0.769	0.000	0.000	0.000	0.000	Constant
Shear	225.00	26.000	0.650	0.761	0.000	0.000	0.000	0.000	Constant
Moment	245.03	31.973	0.493	0.658	0.000	0.000	0.000	0.000	Constant
Shear	251.00	2.600	0.650	0.762	0.000	0.000	0.000	0.000	Constant
Shear	253.60	5.200	0.651	0.763	0.000	0.000	0.000	0.000	Constant
Shear	258.80	5.200	0.653	0.764	0.000	0.000	0.000	0.000	Constant
Shear	264.00	5.200	0.654	0.766	0.000	0.000	0.000	0.000	Constant
Shear	269.20	5.200	0.655	0.768	0.000	0.000	0.000	0.000	Constant
Shear	274.40	2.600	0.657	0.769	0.000	0.000	0.000	0.000	Constant

Steel Rolled Shape Range

Distance (ft)	Length (ft)	Steel Name	Steel Shape Name
0.00	52.00	ASTM A373 32 ksi	W 36x170
0.00	173.00	ASTM A373 32 ksi	W 36x230
0.00	52.00	ASTM A373 32 ksi	W 36x170

Steel Flange Cover Plate Ranges

Relative Position	Bolt Def Name	Num Of Bolts	Bolt Hole Pitch (in)	Bolt Hole Gage (in)	Side Weld Name	End Weld Name	Steel Name	Begin Width (in)	End Width (in)	Distance (ft)	Length (ft)	Thickness (in)
Top:1							ASTM A373 32 ksi	10.5000	10.5000	41.50	18.00	0.8750
Top:1							ASTM A373 32 ksi	15.0000	15.0000	77.00	19.00	0.6875
Top:1							ASTM A373 32 ksi	10.5000	10.5000	79.00	18.00	0.8750
Bottom:1							ASTM A373 32 ksi	18.0000	18.0000	41.50	18.00	0.6875
Bottom:1							ASTM A373 32 ksi	18.0000	18.0000	77.00	19.00	0.6875
Bottom:1							ASTM A373 32 ksi	18.0000	18.0000	79.00	18.00	0.8750

Deck Concrete Profile

Concrete Name	Distance (ft)	Structural Thickness (in)	Effective Width LRFD (in)	Effective Width Standard (in)	Length (ft)	Modular Ratio	Effective Width LRFD Start (in)	Effective Width Standard Start (in)	Effective Width LRFD End (in)	Effective Width Standard End (in)
Class QC2	0.00	8.5000	87.0000	87.0000	277.00	8.000	87.0000	87.0000	87.0000	87.0000

Deck Reinforcement Profile

Distance (ft)	Length (ft)	Number Of Bars	Bar Size	Rein Steel Name	Vert Distance (in)	Vert Distance Reference Type	Num Bars Std	Num Bars Lrfd	BarSpacing (in)
0.00	277.00	8.00	5	Reinforcing Steel 1984 to Now	2.4380	Bottom of Slab	8.00	8.00	10.0000
0.00	277.00	7.00	4		2.7500	Top of Slab	7.00	7.00	12.5000

				Reinforcing Steel 1984 to Now					
27.25	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000
30.25	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000
113.75	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000
116.75	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000
200.25	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000
203.25	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000

Shear Connector Profile

Connector Name	Distance (ft)	Length (ft)	Number Per Row	Number Of Spaces	Traverse Spacing (in)
	0.00	277.00			

Haunch Profile

Distance (ft)	Length (ft)	Y1 (in)	Y2 (in)	Y3 (in)	Z1 (in)	Z2 (in)	Z3 (in)	Z4 (in)
0.00	277.00	2.0000						

Lateral Support Range

Support Number	Distance (ft)	Length (ft)
1	0.00	277.00

Spec Selection

Analysis Method Type	Analysis Module	Selection Type	Spec Version Factors
ASD	AASHTO ASD	System Default	
LFD	AASHTO LFD	System Default	
LRFD	AASHTO LRFD	System Default	
LRFR	AASHTO LRFR	System Default	

Girder Member

Name	G4
Description	
Creation Timestamp	
Last Modified Timestamp	
Pedestrain Live Load Force	lb/ft
Member Alternative Name-Current	G4 Alt
Member Alternative Name-Existing	G4 Alt

Member Loads

Settlement

Load Case	Support Number	X Translation Settlement (in)	Y Translation Settlement (in)	Z Rotation Settlement (Radians)
	1			
	2			
	3			
	4			
	5			

Supports

General

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

Elastic

Override Z Rot Spring Const Indicator	Support Number	X Rotation Spring Constant (kip-in/rad)	X Translation Spring Constant (kip/ft)	Y Rotation Spring Constant (kip-in/rad)	Y Translation Spring Constant (kip/ft)	Z Rotation Spring Constant (kip-in/rad)	Z Translation Spring Constant (kip/ft)
False	1						
False	2						
False	3						
False	4						
False	5						

ThreeD General

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

ThreeD Elastic

Support Number	X Rotation Spring Constant (kip-in/rad)	X Translation Spring Constant (kip/ft)	Y Rotation Spring Constant (kip-in/rad)	Y Translation Spring Constant (kip/ft)	Z Rotation Spring Constant (kip-in/rad)	Z Translation Spring Constant (kip/ft)	Override Z Rot Spring Const Indicator
1							False
2							False
3							False
4							False
5							False

Member Alt - Steel Rolled Beam - Schd

Name	G4 Alt	
Description		
Creation Timestamp		
Last Modified Timestamp		
System Of Units	US Customary	
Default Rating Method	LFD	
LFD Single LL Factor Moment	1.036	
LFD Single LL Factor Shear	1.036	
LFD Single LL Factor Shear At Supports	1.172	
LFD Single LL Factor Deflection	0.143	
LFD Multi LL Factor Moment	1.318	
LFD Multi LL Factor Shear	1.318	
LFD Multi LL Factor Shear At Supports	1.218	
LFD Multi LL Factor Deflection	0.536	
Haunch Embedded Flange Indicator	false	
ASD Opr Rebar Factor		
ASD Opr Concrete Factor		
Haunch Type	Flange edges	
Deck Curing Method Type	Moist-cured	
ASD Inv PS Concrete Compr Factor		
ASD Inv PS Concrete Tens Factor:		
ASD Inv PS Concrete Mom Cap Factor		
ASD Opr PS Concrete Tens Factor		
ASD Opr PS Concrete Mom Cap Factor		
Deck Interface Type	Monolithic	
Deck Cohesion Factor	0.400	ksi

Deck Friction Factor	1.400	
Deck Interface Width		in
Default Interface Width To Beam Width Indicator	false	
Service Life	75.00	Years
Time Composite		Days
Time Analysis		Years
Time Continuous		Days
Deck Drying Time		Days
Deck Differential Shrinkage Indicator	false	
Beam Projection Start	9.0000	in
Beam Projection End	9.0000	in
Distribution Factor Input Method Type	Simplified	
Sufficiently connected to act as a unit	false	
Deck K1	0.250	
Deck K2	1.500	ksi
LFD DF for Permit Loads With Routine Traffic Indicator	true	
LRFD DF for Permit Loads With Routine Traffic Indicator	true	
LRFD Distribution Factor Input Method Type	Simplified	
Default Bolt Name		
Default Deck Concrete Name	Class QC2	
Default Deck Reinf Steel Name	Reinforcing Steel 1984 to Now	
Default Structural Steel Name	Structural Steel (1991 to Present)	
Default Weld Name		
Default Stirrup Reinf Steel Name		
Default Beam Reinf Steel Name		
Default Prestress Tendons Name		
Override LFD Factor Name		
Override LRFD Factor Name		
Override LRFR Factor Name		
LRFD Allow Moment Redistribution Indicator	false	
LRFD Allow Plastic Redistribution Indicator	false	
LRFD Use Appendix A6 For Flexural Resistance Indicator	false	
LRFR Allow Moment Redistribution Indicator	false	
LRFR Allow Plastic Redistribution Indicator	false	
LRFR Use Appendix A6 For Flexural Resistance Indicator	false	
LRFR Evaluate Remaining Fatigue Life Indicator	false	
LRFR Consider Flange Lateral Bending Stress Indicator	false	
LFD Allow Moment Redistribution Indicator	false	
LFD Include Bearing Stiffeners In Rating Indicator	true	
LRFD Ignore Long Reinf In Negative Moment Capacity	false	
LRFR Ignore Long Reinf In Negative Moment Capacity	false	
LFD Ignore Long Reinf In Negative Moment Capacity	false	
ASD Ignore Long Reinf In Negative Moment Capacity	false	
LRFD POI Generated At Stiffeners Indicator	false	
LRFR POI Generated At Stiffeners Indicator	false	
LFD Allow Plastic Analysis of Cover Plate Indicator	false	
LFD Ignore Shear Indicator	false	
Simple DL Continuous LL Indicator	false	
ASD Consider Deck Reinf Development Length Indicator	false	
LFD Consider Deck Reinf Development Length Indicator	false	
LRFR Consider Deck Reinf Development Length Indicator	false	
LRFD Consider Deck Reinf Development Length Indicator	false	
LRFR Consider Tension-Field Action in Stiffened Web End Panels	false	
LFD Consider Tension-Field Action in Stiffened Web End Panels	false	
LFD Use LRFD Shear Resistance for Curved Stiffened Interior Web Panels	false	
ASD Consider Tension-Field Action in Stiffened Web End Panels	false	
Cross Section Based Indicator	false	
Beam Projection Start	9.0000	in
Beam Projection End	9.0000	in
Impact Factor Type	Standard - AASHTO	
Impact Factor Adjustment	0.000	
Impact Factor Override	0.0	%
LRFD Constant Impact Factor	33.0	%
LRFD Fatigue Impact Factor	15.0	%
ASD Inv Rebar Factor		
ASD Inv Concrete Factor		
ASD Inv Structural Steel Factor		
ASD Inv Stirrup Factor		
ASD Inv Bearing Stiffener Factor		
ASD Opr Rebar Factor		
ASD Opr Concrete Factor		
ASD Opr Structural Steel Factor		
ASD Opr Stirrup Factor		
ASD Opr Bearing Stiffener Factor		
ASD Opr Timber Allow Stress Percent		
Default Rating Method	LFD	
LRFR Condition Factor	Good or Satisfactory	

LRFR System Factor Override	All Other Girder/Slab Bridges	
LRFD POI Tenth Points Indicator	true	
LRFR POI Tenth Points Indicator	true	
LFD POI Tenth Points Indicator	true	
ASD POI Tenth Points Indicator	true	
LRFD POI Section Change Points Indicator	true	
LRFR POI Section Change Points Indicator	true	
LFD POI Section Change Points Indicator	true	
ASD POI Section Change Points Indicator	true	
LRFD POI User-Defined Points Indicator	true	
LRFR POI User-Defined Points Indicator	true	
LFD POI User-Defined Points Indicator	true	
ASD POI User-Defined Points Indicator	true	
LRFD Distribution Factor Application Method Type	By Point of Interest	
LRFR Distribution Factor Application Method Type	By Point of Interest	
LFD Distribution Factor Input Method Type	By Point of Interest	
LRFR Field Measured Section Properties Indicator	false	
LRFR System Factor Override	false	
Self Load Case Name	true	
Additional Self Load		kip/ft
Additional Self Load Percentage		%
Default Nail Name		

Import Event

LRFD Live Load Distribution Factors

Action Type	Distance (ft)	Length (ft)	Single Lane Factor	Multi Lane Factor	Start Single Lane Factor	End Single Lane Factor	Start Multi Lane Factor	End Multi Lane Factor	Factor Variaton Type
Deflection	0.00	277.000	0.086	0.232	0.000	0.000	0.000	0.000	Constant
Moment	0.00	32.262	0.493	0.658	0.000	0.000	0.000	0.000	Constant
Shear	0.00	26.000	0.650	0.761	0.000	0.000	0.000	0.000	Constant
Shear	26.00	2.600	0.650	0.762	0.000	0.000	0.000	0.000	Constant
Shear	28.60	5.200	0.651	0.763	0.000	0.000	0.000	0.000	Constant
Moment	32.26	35.259	0.464	0.635	0.000	0.000	0.000	0.000	Constant
Shear	33.80	5.200	0.653	0.764	0.000	0.000	0.000	0.000	Constant
Shear	39.00	5.200	0.654	0.765	0.000	0.000	0.000	0.000	Constant
Shear	44.20	5.200	0.655	0.767	0.000	0.000	0.000	0.000	Constant
Shear	49.40	2.600	0.656	0.768	0.000	0.000	0.000	0.000	Constant
Shear	52.00	43.250	0.650	0.761	0.000	0.000	0.000	0.000	Constant
Moment	67.52	50.634	0.424	0.591	0.000	0.000	0.000	0.000	Constant
Shear	95.25	4.325	0.650	0.762	0.000	0.000	0.000	0.000	Constant
Shear	99.58	8.650	0.651	0.763	0.000	0.000	0.000	0.000	Constant
Shear	108.23	8.650	0.653	0.765	0.000	0.000	0.000	0.000	Constant
Shear	116.88	8.650	0.654	0.766	0.000	0.000	0.000	0.000	Constant
Moment	118.16	40.708	0.437	0.609	0.000	0.000	0.000	0.000	Constant
Shear	125.53	8.650	0.655	0.767	0.000	0.000	0.000	0.000	Constant
Shear	134.18	4.325	0.657	0.769	0.000	0.000	0.000	0.000	Constant
Shear	138.50	43.250	0.650	0.761	0.000	0.000	0.000	0.000	Constant
Moment	158.86	50.408	0.424	0.591	0.000	0.000	0.000	0.000	Constant
Shear	181.75	4.325	0.650	0.762	0.000	0.000	0.000	0.000	Constant
Shear	186.08	8.650	0.651	0.763	0.000	0.000	0.000	0.000	Constant
Shear	194.73	8.650	0.653	0.765	0.000	0.000	0.000	0.000	Constant
Shear	203.38	8.650	0.654	0.766	0.000	0.000	0.000	0.000	Constant
Moment	209.27	35.766	0.475	0.651	0.000	0.000	0.000	0.000	Constant
Shear	212.03	8.650	0.656	0.768	0.000	0.000	0.000	0.000	Constant
Shear	220.68	4.325	0.656	0.769	0.000	0.000	0.000	0.000	Constant
Shear	225.00	26.000	0.650	0.761	0.000	0.000	0.000	0.000	Constant
Moment	245.04	31.964	0.493	0.658	0.000	0.000	0.000	0.000	Constant
Shear	251.00	2.600	0.650	0.762	0.000	0.000	0.000	0.000	Constant
Shear	253.60	5.200	0.651	0.763	0.000	0.000	0.000	0.000	Constant
Shear	258.80	5.200	0.653	0.764	0.000	0.000	0.000	0.000	Constant
Shear	264.00	5.200	0.654	0.766	0.000	0.000	0.000	0.000	Constant
Shear	269.20	5.200	0.655	0.768	0.000	0.000	0.000	0.000	Constant
Shear	274.40	2.600	0.657	0.769	0.000	0.000	0.000	0.000	Constant

Steel Rolled Shape Range

Distance (ft)	Length (ft)	Steel Name	Steel Shape Name
0.00	52.00	ASTM A373 32 ksi	W 36x170
0.00	173.00	ASTM A373 32 ksi	W 36x230
0.00	52.00	ASTM A373 32 ksi	W 36x170

Steel Flange Cover Plate Ranges

Relative Position	Bolt Def Name	Num Of Bolts	Bolt Hole Pitch (in)	Bolt Hole Gage (in)	Side Weld Name	End Weld Name	Steel Name	Begin Width (in)	End Width (in)	Distance (ft)	Length (ft)	Thickness (in)
Top:1							ASTM A373 32 ksi	10.5000	10.5000	41.50	18.00	0.8750
Top:1							ASTM A373 32 ksi	15.0000	15.0000	77.00	19.00	0.6875
Top:1							ASTM A373 32 ksi	10.5000	10.5000	79.00	18.00	0.8750
Bottom:1							ASTM A373 32 ksi	18.0000	18.0000	41.50	18.00	0.6875
Bottom:1							ASTM A373 32 ksi	18.0000	18.0000	77.00	19.00	0.6875
Bottom:1							ASTM A373 32 ksi	18.0000	18.0000	79.00	18.00	0.8750

Deck Concrete Profile

Concrete Name	Distance (ft)	Structural Thickness (in)	Effective Width LRFD (in)	Effective Width Standard (in)	Length (ft)	Modular Ratio	Effective Width LRFD Start (in)	Effective Width Standard Start (in)	Effective Width LRFD End (in)	Effective Width Standard End (in)
Class QC2	0.00	8.5000	87.0000	87.0000	277.00	8.000	87.0000	87.0000	87.0000	87.0000

Deck Reinforcement Profile

Distance (ft)	Length (ft)	Number Of Bars	Bar Size	Rein Steel Name	Vert Distance (in)	Vert Distance Reference Type	Num Bars Std	Num Bars Lrfd	BarSpacing (in)
0.00	277.00	8.00	5	Reinforcing Steel 1984 to Now	2.4380	Bottom of Slab	8.00	8.00	10.0000
0.00	277.00	7.00	4	Reinforcing Steel 1984 to Now	2.7500	Top of Slab	7.00	7.00	12.5000
27.25	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000
30.25	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000
113.75	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000
116.75	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000
200.25	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000
203.25	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000

Shear Connector Profile

Connector Name	Distance (ft)	Length (ft)	Number Per Row	Number Of Spaces	Traverse Spacing (in)
	0.00	277.00			

Haunch Profile

Distance (ft)	Length (ft)	Y1 (in)	Y2 (in)	Y3 (in)	Z1 (in)	Z2 (in)	Z3 (in)	Z4 (in)
0.00	277.00	2.0000						

Lateral Support Range

Support Number	Distance (ft)	Length (ft)
1	0.00	277.00

Spec Selection

Analysis Method Type	Analysis Module	Selection Type	Spec Version Factors
ASD	AASHTO ASD	System Default	
LFD	AASHTO LFD	System Default	
LRFD	AASHTO LRFD	System Default	
LRFR	AASHTO LRFR	System Default	

Girder Member

Name	G5
Description	
Creation Timestamp	
Last Modified Timestamp	
Pedestrain Live Load Force	lb/ft
Member Alternative Name-Current	G5 Alt
Member Alternative Name-Existing	G5 Alt

Member Loads

Settlement

Load Case	Support Number	X Translation Settlement (in)	Y Translation Settlement (in)	Z Rotation Settlement (Radians)
	1			
	2			
	3			
	4			
	5			

Supports

General

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

Elastic

Override Z Rot Spring Const Indicator	Support Number	X Rotation Spring Constant (kip-in/rad)	X Translation Spring Constant (kip/ft)	Y Rotation Spring Constant (kip-in/rad)	Y Translation Spring Constant (kip/ft)	Z Rotation Spring Constant (kip-in/rad)	Z Translation Spring Constant (kip/ft)
False	1						
False	2						
False	3						
False	4						
False	5						

ThreeD General

Support Number	Support Type	X Rotation Type	X Translation Type	Y Rotation Type	Y Translation Type	Z Rotation Type	Z Translation Type

1	Roller	Free	Free	Free	Fixed	Free	Free
2	Roller	Free	Free	Free	Fixed	Free	Free
3	Pinned	Free	Free	Free	Fixed	Free	Free
4	Roller	Free	Free	Free	Fixed	Free	Free
5	Roller	Free	Free	Free	Fixed	Free	Free

ThreeD Elastic

Support Number	X Rotation Spring Constant (kip-in/rad)	X Translation Spring Constant (kip/ft)	Y Rotation Spring Constant (kip-in/rad)	Y Translation Spring Constant (kip/ft)	Z Rotation Spring Constant (kip-in/rad)	Z Translation Spring Constant (kip/ft)	Override Z Rot Spring Const Indicator
1							False
2							False
3							False
4							False
5							False

Member Alt - Steel Rolled Beam - Schd

Name	G5 Alt	
Description		
Creation Timestamp		
Last Modified Timestamp		
System Of Units	US Customary	
Default Rating Method	LFD	
LFD Single LL Factor Moment	0.804	
LFD Single LL Factor Shear	0.804	
LFD Single LL Factor Shear At Supports	1.172	
LFD Single LL Factor Deflection	0.143	
LFD Multi LL Factor Moment	1.023	
LFD Multi LL Factor Shear	1.023	
LFD Multi LL Factor Shear At Supports	1.448	
LFD Multi LL Factor Deflection	0.536	
Haunch Embedded Flange Indicator	false	
ASD Opr Rebar Factor		
ASD Opr Concrete Factor		
Haunch Type	Flange edges	
Deck Curing Method Type	Moist-cured	
ASD Inv PS Concrete Compr Factor		
ASD Inv PS Concrete Tens Factor:		
ASD Inv PS Concrete Mom Cap Factor		
ASD Opr PS Concrete Tens Factor		
ASD Opr PS Concrete Mom Cap Factor		
Deck Interface Type	Monolithic	
Deck Cohesion Factor	0.400	ksi
Deck Friction Factor	1.400	
Deck Interface Width		in
Default Interface Width To Beam Width Indicator	false	
Service Life	75.00	Years
Time Composite		Days
Time Analysis		Years
Time Continuous		Days
Deck Drying Time		Days
Deck Differential Shrinkage Indicator	false	
Beam Projection Start	9.0000	in
Beam Projection End	9.0000	in
Distribution Factor Input Method Type	Simplified	
Sufficiently connected to act as a unit	false	
Deck K1	0.250	
Deck K2	1.500	ksi
LFD DF for Permit Loads With Routine Traffic Indicator	true	
LRFD DF for Permit Loads With Routine Traffic Indicator	true	
LRFD Distribution Factor Input Method Type	Simplified	
Default Bolt Name		
Default Deck Concrete Name	Class QC2	
Default Deck Reinf Steel Name	Reinforcing Steel 1984 to Now	
Default Structural Steel Name	Structural Steel (1991 to Present)	
Default Weld Name		
Default Stirrup Reinf Steel Name		
Default Beam Reinf Steel Name		
Default Prestress Tendons Name		
Override LFD Factor Name		
Override LRFD Factor Name		

Override LRFR Factor Name		
LRFD Allow Moment Redistribution Indicator	false	
LRFD Allow Plastic Redistribution Indicator	false	
LRFD Use Appendix A6 For Flexural Resistance Indicator	false	
LRFR Allow Moment Redistribution Indicator	false	
LRFR Allow Plastic Redistribution Indicator	false	
LRFR Use Appendix A6 For Flexural Resistance Indicator	false	
LRFR Evaluate Remaining Fatigue Life Indicator	false	
LRFR Consider Flange Lateral Bending Stress Indicator	false	
LFD Allow Moment Redistribution Indicator	false	
LFD Include Bearing Stiffeners In Rating Indicator	true	
LRFD Ignore Long Reinf In Negative Moment Capacity	false	
LRFR Ignore Long Reinf In Negative Moment Capacity	false	
LFD Ignore Long Reinf In Negative Moment Capacity	false	
ASD Ignore Long Reinf In Negative Moment Capacity	false	
LRFD POI Generated At Stiffeners Indicator	false	
LRFR POI Generated At Stiffeners Indicator	false	
LFD Allow Plastic Analysis of Cover Plate Indicator	false	
LFD Ignore Shear Indicator	false	
Simple DL Continuous LL Indicator	false	
ASD Consider Deck Reinf Development Length Indicator	false	
LFD Consider Deck Reinf Development Length Indicator	false	
LRFR Consider Deck Reinf Development Length Indicator	false	
LRFD Consider Deck Reinf Development Length Indicator	false	
LRFR Consider Tension-Field Action in Stiffened Web End Panels	false	
LFD Consider Tension-Field Action in Stiffened Web End Panels	false	
LFD Use LRFD Shear Resistance for Curved Stiffened Interior Web Panels	false	
ASD Consider Tension-Field Action in Stiffened Web End Panels	false	
Cross Section Based Indicator	false	
Beam Projection Start	9.0000	in
Beam Projection End	9.0000	in
Impact Factor Type	Standard - AASHTO	
Impact Factor Adjustment	0.000	
Impact Factor Override	0.0	%
LRFD Constant Impact Factor	33.0	%
LRFD Fatigue Impact Factor	15.0	%
ASD Inv Rebar Factor		
ASD Inv Concrete Factor		
ASD Inv Structural Steel Factor		
ASD Inv Stirrup Factor		
ASD Inv Bearing Stiffener Factor		
ASD Opr Rebar Factor		
ASD Opr Concrete Factor		
ASD Opr Structural Steel Factor		
ASD Opr Stirrup Factor		
ASD Opr Bearing Stiffener Factor		
ASD Opr Timber Allow Stress Percent		
Default Rating Method	LFD	
LRFR Condition Factor	Good or Satisfactory	
LRFR System Factor Override	All Other Girder/Slab Bridges	
LRFD POI Tenth Points Indicator	true	
LRFR POI Tenth Points Indicator	true	
LFD POI Tenth Points Indicator	true	
ASD POI Tenth Points Indicator	true	
LRFD POI Section Change Points Indicator	true	
LRFR POI Section Change Points Indicator	true	
LFD POI Section Change Points Indicator	true	
ASD POI Section Change Points Indicator	true	
LRFD POI User-Defined Points Indicator	true	
LRFR POI User-Defined Points Indicator	true	
LFD POI User-Defined Points Indicator	true	
ASD POI User-Defined Points Indicator	true	
LRFD Distribution Factor Application Method Type	By Point of Interest	
LRFR Distribution Factor Application Method Type	By Point of Interest	
LFD Distribution Factor Input Method Type	By Point of Interest	
LRFR Field Measured Section Properties Indicator	false	
LRFR System Factor Override	false	
Self Load Case Name	true	
Additional Self Load		kip/ft
Additional Self Load Percentage		%
Default Nail Name		

Import Event

LRFD Live Load Distribution Factors

Action Type	Distance (ft)	Length (ft)	Single Lane Factor	Multi Lane Factor	Start Single Lane Factor	End Single Lane Factor	Start Multi Lane Factor	End Multi Lane Factor	Factor Variaton Type
Deflection	0.00	277.000	0.086	0.232	0.000	0.000	0.000	0.000	Constant
Moment	0.00	32.279	0.422	0.551	0.000	0.000	0.000	0.000	Constant
Shear	0.00	26.000	0.585	0.643	0.000	0.000	0.000	0.000	Constant
Shear	26.00	2.600	0.585	0.643	0.000	0.000	0.000	0.000	Constant
Shear	28.60	5.200	0.586	0.644	0.000	0.000	0.000	0.000	Constant
Moment	32.28	35.219	0.398	0.532	0.000	0.000	0.000	0.000	Constant
Shear	33.80	5.200	0.587	0.646	0.000	0.000	0.000	0.000	Constant
Shear	39.00	5.200	0.588	0.646	0.000	0.000	0.000	0.000	Constant
Shear	44.20	5.200	0.589	0.648	0.000	0.000	0.000	0.000	Constant
Shear	49.40	2.600	0.590	0.649	0.000	0.000	0.000	0.000	Constant
Shear	52.00	43.250	0.585	0.643	0.000	0.000	0.000	0.000	Constant
Moment	67.50	50.670	0.365	0.496	0.000	0.000	0.000	0.000	Constant
Shear	95.25	4.325	0.585	0.643	0.000	0.000	0.000	0.000	Constant
Shear	99.58	8.650	0.586	0.644	0.000	0.000	0.000	0.000	Constant
Shear	108.23	8.650	0.588	0.646	0.000	0.000	0.000	0.000	Constant
Shear	116.88	8.650	0.589	0.647	0.000	0.000	0.000	0.000	Constant
Moment	118.17	40.692	0.376	0.511	0.000	0.000	0.000	0.000	Constant
Shear	125.53	8.650	0.590	0.648	0.000	0.000	0.000	0.000	Constant
Shear	134.18	4.325	0.591	0.649	0.000	0.000	0.000	0.000	Constant
Shear	138.50	43.250	0.585	0.643	0.000	0.000	0.000	0.000	Constant
Moment	158.86	50.435	0.365	0.496	0.000	0.000	0.000	0.000	Constant
Shear	181.75	4.325	0.585	0.643	0.000	0.000	0.000	0.000	Constant
Shear	186.08	8.650	0.586	0.644	0.000	0.000	0.000	0.000	Constant
Shear	194.73	8.650	0.588	0.646	0.000	0.000	0.000	0.000	Constant
Shear	203.38	8.650	0.589	0.647	0.000	0.000	0.000	0.000	Constant
Moment	209.29	35.717	0.408	0.545	0.000	0.000	0.000	0.000	Constant
Shear	212.03	8.650	0.590	0.649	0.000	0.000	0.000	0.000	Constant
Shear	220.68	4.325	0.591	0.649	0.000	0.000	0.000	0.000	Constant
Shear	225.00	26.000	0.585	0.643	0.000	0.000	0.000	0.000	Constant
Moment	245.01	31.988	0.422	0.551	0.000	0.000	0.000	0.000	Constant
Shear	251.00	2.600	0.585	0.643	0.000	0.000	0.000	0.000	Constant
Shear	253.60	5.200	0.586	0.644	0.000	0.000	0.000	0.000	Constant
Shear	258.80	5.200	0.587	0.646	0.000	0.000	0.000	0.000	Constant
Shear	264.00	5.200	0.589	0.647	0.000	0.000	0.000	0.000	Constant
Shear	269.20	5.200	0.590	0.648	0.000	0.000	0.000	0.000	Constant
Shear	274.40	2.600	0.591	0.650	0.000	0.000	0.000	0.000	Constant

Steel Rolled Shape Range

Distance (ft)	Length (ft)	Steel Name	Steel Shape Name
0.00	52.00	ASTM A373 32 ksi	W 36x170
0.00	173.00	ASTM A373 32 ksi	W 36x230
0.00	52.00	ASTM A373 32 ksi	W 36x170

Steel Flange Cover Plate Ranges

Relative Position	Bolt Def Name	Num Of Bolts	Bolt Hole Pitch (in)	Bolt Hole Gage (in)	Side Weld Name	End Weld Name	Steel Name	Begin Width (in)	End Width (in)	Distance (ft)	Length (ft)	Thickness (in)
Top:1							ASTM A373 32 ksi	10.5000	10.5000	41.50	18.00	0.8750
Top:1							ASTM A373 32 ksi	15.0000	15.0000	77.00	19.00	0.6875
Top:1							ASTM A373 32 ksi	10.5000	10.5000	79.00	18.00	0.8750
Bottom:1							ASTM A373 32 ksi	18.0000	18.0000	41.50	18.00	0.6875
Bottom:1							ASTM A373 32 ksi	18.0000	18.0000	77.00	19.00	0.6875
Bottom:1								18.0000	18.0000	79.00	18.00	0.8750

ASTM A373
32 ksi

Deck Concrete Profile

Concrete Name	Distance (ft)	Structural Thickness (in)	Effective Width LRFD (in)	Effective Width Standard (in)	Length (ft)	Modular Ratio	Effective Width LRFD Start (in)	Effective Width Standard Start (in)	Effective Width LRFD End (in)	Effective Width Standard End (in)
Class QC2	0.00	8.5000	67.5000	67.5000	277.00	8.000	67.5000	67.5000	67.5000	67.5000

Deck Reinforcement Profile

Distance (ft)	Length (ft)	Number Of Bars	Bar Size	Rein Steel Name	Vert Distance (in)	Vert Distance Reference Type	Num Bars Std	Num Bars Lrfd	BarSpacing (in)
0.00	277.00	6.00	5	Reinforcing Steel 1984 to Now	2.4380	Bottom of Slab	6.00	6.00	10.0000
0.00	277.00	5.00	4	Reinforcing Steel 1984 to Now	2.7500	Top of Slab	5.00	5.00	12.5000
27.75	46.50	5.50	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	5.50	5.50	12.5000
30.25	46.50	5.50	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	5.50	5.50	12.5000
113.75	46.50	5.50	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	5.50	5.50	12.5000
116.75	46.50	5.50	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	5.50	5.50	12.5000
200.25	46.50	5.50	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	5.50	5.50	12.5000
203.25	46.50	5.50	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	5.50	5.50	12.5000

Shear Connector Profile

Connector Name	Distance (ft)	Length (ft)	Number Per Row	Number Of Spaces	Traverse Spacing (in)
	0.00	277.00			

Haunch Profile

Distance (ft)	Length (ft)	Y1 (in)	Y2 (in)	Y3 (in)	Z1 (in)	Z2 (in)	Z3 (in)	Z4 (in)
0.00	277.00	2.0000						

Lateral Support Range

Support Number	Distance (ft)	Length (ft)
1	0.00	277.00

Spec Selection

Analysis Method Type	Analysis Module	Selection Type	Spec Version Factors
ASD	AASHTO ASD	System Default	
LFD	AASHTO LFD	System Default	
LRFD	AASHTO LRFD	System Default	
LRFR	AASHTO LRFR	System Default	

Girder Member

Name G6
Description
Creation Timestamp
Last Modified Timestamp

Pedestrain Live Load Force	lb/ft
Member Alternative Name-Current	G6 Alt
Member Alternative Name-Existing	G6 Alt

Member Loads

Settlement

Load Case	Support Number	X Translation Settlement (in)	Y Translation Settlement (in)	Z Rotation Settlement (Radians)
	1			
	2			
	3			
	4			
	5			

Supports

General

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

Elastic

Override Z Rot Spring Const Indicator	Support Number	X Rotation Spring Constant (kip-in/rad)	X Translation Spring Constant (kip/ft)	Y Rotation Spring Constant (kip-in/rad)	Y Translation Spring Constant (kip/ft)	Z Rotation Spring Constant (kip-in/rad)	Z Translation Spring Constant (kip/ft)
False	1						
False	2						
False	3						
False	4						
False	5						

ThreeD General

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

ThreeD Elastic

Support Number	X Rotation Spring Constant (kip-in/rad)	X Translation Spring Constant (kip/ft)	Y Rotation Spring Constant (kip-in/rad)	Y Translation Spring Constant (kip/ft)	Z Rotation Spring Constant (kip-in/rad)	Z Translation Spring Constant (kip/ft)	Override Z Rot Spring Const Indicator
1							False
2							False
3							False
4							False
5							False

Member Alt - Steel Rolled Beam - Schd

Name	G6 Alt
Description	
Creation Timestamp	
Last Modified Timestamp	
System Of Units	US Customary

Default Rating Method	LFD	
LFD Single LL Factor Moment	0.804	
LFD Single LL Factor Shear	0.804	
LFD Single LL Factor Shear At Supports	1.172	
LFD Single LL Factor Deflection	0.143	
LFD Multi LL Factor Moment	1.023	
LFD Multi LL Factor Shear	1.023	
LFD Multi LL Factor Shear At Supports	1.448	
LFD Multi LL Factor Deflection	0.536	
Haunch Embedded Flange Indicator	false	
ASD Opr Rebar Factor		
ASD Opr Concrete Factor		
Haunch Type	Flange edges	
Deck Curing Method Type	Moist-cured	
ASD Inv PS Concrete Compr Factor		
ASD Inv PS Concrete Tens Factor:		
ASD Inv PS Concrete Mom Cap Factor		
ASD Opr PS Concrete Tens Factor		
ASD Opr PS Concrete Mom Cap Factor		
Deck Interface Type	Monolithic	
Deck Cohesion Factor	0.400	ksi
Deck Friction Factor	1.400	
Deck Interface Width		in
Default Interface Width To Beam Width Indicator	false	
Service Life	75.00	Years
Time Composite		Days
Time Analysis		Years
Time Continuous		Days
Deck Drying Time		Days
Deck Differential Shrinkage Indicator	false	
Beam Projection Start	9.0000	in
Beam Projection End	9.0000	in
Distribution Factor Input Method Type	Simplified	
Sufficiently connected to act as a unit	false	
Deck K1	0.250	
Deck K2	1.500	ksi
LFD DF for Permit Loads With Routine Traffic Indicator	true	
LRFD DF for Permit Loads With Routine Traffic Indicator	true	
LRFD Distribution Factor Input Method Type	Simplified	
Default Bolt Name		
Default Deck Concrete Name	Class QC2	
Default Deck Reinf Steel Name	Reinforcing Steel 1984 to Now	
Default Structural Steel Name	Structural Steel (1991 to Present)	
Default Weld Name		
Default Stirrup Reinf Steel Name		
Default Beam Reinf Steel Name		
Default Prestress Tendons Name		
Override LFD Factor Name		
Override LRFD Factor Name		
Override LRFR Factor Name		
LRFD Allow Moment Redistribution Indicator	false	
LRFD Allow Plastic Redistribution Indicator	false	
LRFD Use Appendix A6 For Flexural Resistance Indicator	false	
LRFR Allow Moment Redistribution Indicator	false	
LRFR Allow Plastic Redistribution Indicator	false	
LRFR Use Appendix A6 For Flexural Resistance Indicator	false	
LRFR Evaluate Remaining Fatigue Life Indicator	false	
LRFR Consider Flange Lateral Bending Stress Indicator	false	
LFD Allow Moment Redistribution Indicator	false	
LFD Include Bearing Stiffeners In Rating Indicator	true	
LRFD Ignore Long Reinf In Negative Moment Capacity	false	
LRFR Ignore Long Reinf In Negative Moment Capacity	false	
LFD Ignore Long Reinf In Negative Moment Capacity	false	
ASD Ignore Long Reinf In Negative Moment Capacity	false	
LRFD POI Generated At Stiffeners Indicator	false	
LRFR POI Generated At Stiffeners Indicator	false	
LFD Allow Plastic Analysis of Cover Plate Indicator	false	
LFD Ignore Shear Indicator	false	
Simple DL Continuous LL Indicator	false	
ASD Consider Deck Reinf Development Length Indicator	false	
LFD Consider Deck Reinf Development Length Indicator	false	
LRFR Consider Deck Reinf Development Length Indicator	false	
LRFD Consider Deck Reinf Development Length Indicator	false	
LRFR Consider Tension-Field Action in Stiffened Web End Panels	false	
LFD Consider Tension-Field Action in Stiffened Web End Panels	false	
LFD Use LRFD Shear Resistance for Curved Stiffened Interior Web Panels	false	
ASD Consider Tension-Field Action in Stiffened Web End Panels	false	

Cross Section Based Indicator	false	
Beam Projection Start	9.0000	in
Beam Projection End	9.0000	in
Impact Factor Type	Standard - AASHTO	
Impact Factor Adjustment	0.000	
Impact Factor Override	0.0	%
LRFD Constant Impact Factor	33.0	%
LRFD Fatigue Impact Factor	15.0	%
ASD Inv Rebar Factor		
ASD Inv Concrete Factor		
ASD Inv Structural Steel Factor		
ASD Inv Stirrup Factor		
ASD Inv Bearing Stiffener Factor		
ASD Opr Rebar Factor		
ASD Opr Concrete Factor		
ASD Opr Structural Steel Factor		
ASD Opr Stirrup Factor		
ASD Opr Bearing Stiffener Factor		
ASD Opr Timber Allow Stress Percent		
Default Rating Method	LFD	
LRFR Condition Factor	Good or Satisfactory	
LRFR System Factor Override	All Other Girder/Slab Bridges	
LRFD POI Tenth Points Indicator	true	
LRFR POI Tenth Points Indicator	true	
LFD POI Tenth Points Indicator	true	
ASD POI Tenth Points Indicator	true	
LRFD POI Section Change Points Indicator	true	
LRFR POI Section Change Points Indicator	true	
LFD POI Section Change Points Indicator	true	
ASD POI Section Change Points Indicator	true	
LRFD POI User-Defined Points Indicator	true	
LRFR POI User-Defined Points Indicator	true	
LFD POI User-Defined Points Indicator	true	
ASD POI User-Defined Points Indicator	true	
LRFD Distribution Factor Application Method Type	By Point of Interest	
LRFR Distribution Factor Application Method Type	By Point of Interest	
LFD Distribution Factor Input Method Type	By Point of Interest	
LRFR Field Measured Section Properties Indicator	false	
LRFR System Factor Override	false	
Self Load Case Name	true	
Additional Self Load		kip/ft
Additional Self Load Percentage		%
Default Nail Name		

Import Event

LRFD Live Load Distribution Factors

Action Type	Distance (ft)	Length (ft)	Single Lane Factor	Multi Lane Factor	Start Single Lane Factor	End Single Lane Factor	Start Multi Lane Factor	End Multi Lane Factor	Factor Variaton Type
Deflection	0.00	277.000	0.086	0.232	0.000	0.000	0.000	0.000	Constant
Moment	0.00	32.256	0.422	0.551	0.000	0.000	0.000	0.000	Constant
Shear	0.00	26.000	0.585	0.643	0.000	0.000	0.000	0.000	Constant
Shear	26.00	2.600	0.585	0.643	0.000	0.000	0.000	0.000	Constant
Shear	28.60	5.200	0.586	0.644	0.000	0.000	0.000	0.000	Constant
Moment	32.26	35.217	0.398	0.532	0.000	0.000	0.000	0.000	Constant
Shear	33.80	5.200	0.587	0.646	0.000	0.000	0.000	0.000	Constant
Shear	39.00	5.200	0.588	0.646	0.000	0.000	0.000	0.000	Constant
Shear	44.20	5.200	0.589	0.648	0.000	0.000	0.000	0.000	Constant
Shear	49.40	2.600	0.590	0.649	0.000	0.000	0.000	0.000	Constant
Shear	52.00	43.250	0.585	0.643	0.000	0.000	0.000	0.000	Constant
Moment	67.47	50.730	0.365	0.496	0.000	0.000	0.000	0.000	Constant
Shear	95.25	4.325	0.585	0.643	0.000	0.000	0.000	0.000	Constant
Shear	99.58	8.650	0.586	0.644	0.000	0.000	0.000	0.000	Constant
Shear	108.23	8.650	0.588	0.646	0.000	0.000	0.000	0.000	Constant
Shear	116.88	8.650	0.589	0.647	0.000	0.000	0.000	0.000	Constant
Moment	118.20	40.693	0.376	0.511	0.000	0.000	0.000	0.000	Constant
Shear	125.53	8.650	0.590	0.648	0.000	0.000	0.000	0.000	Constant
Shear	134.18	4.325	0.591	0.649	0.000	0.000	0.000	0.000	Constant
Shear	138.50	43.250	0.585	0.643	0.000	0.000	0.000	0.000	Constant
Moment	158.90	50.377	0.365	0.496	0.000	0.000	0.000	0.000	Constant

Shear	181.75	4.325	0.585	0.643	0.000	0.000	0.000	0.000	Constant
Shear	186.08	8.650	0.586	0.644	0.000	0.000	0.000	0.000	Constant
Shear	194.73	8.650	0.588	0.646	0.000	0.000	0.000	0.000	Constant
Shear	203.38	8.650	0.589	0.647	0.000	0.000	0.000	0.000	Constant
Moment	209.27	35.722	0.408	0.545	0.000	0.000	0.000	0.000	Constant
Shear	212.03	8.650	0.590	0.649	0.000	0.000	0.000	0.000	Constant
Shear	220.68	4.325	0.591	0.649	0.000	0.000	0.000	0.000	Constant
Shear	225.00	26.000	0.585	0.643	0.000	0.000	0.000	0.000	Constant
Moment	244.99	32.005	0.422	0.551	0.000	0.000	0.000	0.000	Constant
Shear	251.00	2.600	0.585	0.643	0.000	0.000	0.000	0.000	Constant
Shear	253.60	5.200	0.586	0.644	0.000	0.000	0.000	0.000	Constant
Shear	258.80	5.200	0.587	0.646	0.000	0.000	0.000	0.000	Constant
Shear	264.00	5.200	0.589	0.647	0.000	0.000	0.000	0.000	Constant
Shear	269.20	5.200	0.590	0.648	0.000	0.000	0.000	0.000	Constant
Shear	274.40	2.600	0.591	0.650	0.000	0.000	0.000	0.000	Constant

Steel Rolled Shape Range

Distance (ft)	Length (ft)	Steel Name	Steel Shape Name
0.00	52.00	ASTM A373 32 ksi	W 36x170
0.00	173.00	ASTM A373 32 ksi	W 36x230
0.00	52.00	ASTM A373 32 ksi	W 36x170

Steel Flange Cover Plate Ranges

Relative Position	Bolt Def Name	Num Of Bolts	Bolt Hole Pitch (in)	Bolt Hole Gage (in)	Side Weld Name	End Weld Name	Steel Name	Begin Width (in)	End Width (in)	Distance (ft)	Length (ft)	Thickness (in)
Top:1							ASTM A373 32 ksi	10.5000	10.5000	41.50	18.00	0.8750
Top:1							ASTM A373 32 ksi	15.0000	15.0000	77.00	19.00	0.6875
Top:1							ASTM A373 32 ksi	10.5000	10.5000	79.00	18.00	0.8750
Bottom:1							ASTM A373 32 ksi	18.0000	18.0000	41.50	18.00	0.6875
Bottom:1							ASTM A373 32 ksi	18.0000	18.0000	77.00	19.00	0.6875
Bottom:1							ASTM A373 32 ksi	18.0000	18.0000	79.00	18.00	0.8750

Deck Concrete Profile

Concrete Name	Distance (ft)	Structural Thickness (in)	Effective Width LRFD (in)	Effective Width Standard (in)	Length (ft)	Modular Ratio	Effective Width LRFD Start (in)	Effective Width Standard Start (in)	Effective Width LRFD End (in)	Effective Width Standard End (in)
Class QC2	0.00	8.5000	67.5000	67.5000	277.00	8.000	67.5000	67.5000	67.5000	67.5000

Deck Reinforcement Profile

Distance (ft)	Length (ft)	Number Of Bars	Bar Size	Rein Steel Name	Vert Distance (in)	Vert Distance Reference Type	Num Bars Std	Num Bars Lrfd	BarSpacing (in)
0.00	277.00	6.00	5	Reinforcing Steel 1984 to Now	2.4380	Bottom of Slab	6.00	6.00	10.0000
0.00	277.00	5.00	4	Reinforcing Steel 1984 to Now	2.7500	Top of Slab	5.00	5.00	12.5000
27.75	46.50	5.50	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	5.50	5.50	12.5000
30.25	46.50	5.50	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	5.50	5.50	12.5000
113.75	46.50	5.50	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	5.50	5.50	12.5000

116.75	46.50	5.50	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	5.50	5.50	12.5000
200.25	46.50	5.50	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	5.50	5.50	12.5000
203.25	46.50	5.50	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	5.50	5.50	12.5000

Shear Connector Profile

Connector Name	Distance (ft)	Length (ft)	Number Per Row	Number Of Spaces	Traverse Spacing (in)
	0.00	277.00			

Haunch Profile

Distance (ft)	Length (ft)	Y1 (in)	Y2 (in)	Y3 (in)	Z1 (in)	Z2 (in)	Z3 (in)	Z4 (in)
0.00	277.00	2.0000						

Lateral Support Range

Support Number	Distance (ft)	Length (ft)
1	0.00	277.00

Spec Selection

Analysis Method Type	Analysis Module	Selection Type	Spec Version Factors
ASD	AASHTO ASD	System Default	
LFD	AASHTO LFD	System Default	
LRFD	AASHTO LRFD	System Default	
LRFR	AASHTO LRFR	System Default	

Girder Member

Name	G7
Description	
Creation Timestamp	
Last Modified Timestamp	
Pedestrain Live Load Force	lb/ft
Member Alternative Name-Current	G7 Alt
Member Alternative Name-Existing	G7 Alt

Member Loads

Settlement

Load Case	Support Number	X Translation Settlement (in)	Y Translation Settlement (in)	Z Rotation Settlement (Radians)
	1			
	2			
	3			
	4			
	5			

Supports

General

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

Elastic

Override Z Rot Spring Const Indicator	Support Number	X Rotation Spring Constant (kip-in/rad)	X Translation Spring Constant (kip/ft)	Y Rotation Spring Constant (kip-in/rad)	Y Translation Spring Constant (kip/ft)	Z Rotation Spring Constant (kip-in/rad)	Z Translation Spring Constant (kip/ft)
False	1						
False	2						
False	3						
False	4						
False	5						

ThreeD General

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

ThreeD Elastic

Support Number	X Rotation Spring Constant (kip-in/rad)	X Translation Spring Constant (kip/ft)	Y Rotation Spring Constant (kip-in/rad)	Y Translation Spring Constant (kip/ft)	Z Rotation Spring Constant (kip-in/rad)	Z Translation Spring Constant (kip/ft)	Override Z Rot Spring Const Indicator
1							False
2							False
3							False
4							False
5							False

Member Alt - Steel Rolled Beam - Schd

Name	G7 Alt	
Description		
Creation Timestamp		
Last Modified Timestamp		
System Of Units	US Customary	
Default Rating Method	LFD	
LFD Single LL Factor Moment	1.036	
LFD Single LL Factor Shear	1.036	
LFD Single LL Factor Shear At Supports	1.172	
LFD Single LL Factor Deflection	0.143	
LFD Multi LL Factor Moment	1.318	
LFD Multi LL Factor Shear	1.318	
LFD Multi LL Factor Shear At Supports	1.621	
LFD Multi LL Factor Deflection	0.536	
Haunch Embedded Flange Indicator	false	
ASD Opr Rebar Factor		
ASD Opr Concrete Factor		
Haunch Type	Flange edges	
Deck Curing Method Type	Moist-cured	
ASD Inv PS Concrete Compr Factor		
ASD Inv PS Concrete Tens Factor:		
ASD Inv PS Concrete Mom Cap Factor		
ASD Opr PS Concrete Tens Factor		
ASD Opr PS Concrete Mom Cap Factor		
Deck Interface Type	Monolithic	
Deck Cohesion Factor	0.400	ksi
Deck Friction Factor	1.400	
Deck Interface Width		in
Default Interface Width To Beam Width Indicator	false	
Service Life	75.00	Years
Time Composite		Days
Time Analysis		Years
Time Continuous		Days
Deck Drying Time		Days
Deck Differential Shrinkage Indicator	false	
Beam Projection Start	9.0000	in
Beam Projection End	9.0000	in

Distribution Factor Input Method Type	Simplified	
Sufficiently connected to act as a unit	false	
Deck K1	0.250	
Deck K2	1.500	ksi
LFD DF for Permit Loads With Routine Traffic Indicator	true	
LRFD DF for Permit Loads With Routine Traffic Indicator	true	
LRFD Distribution Factor Input Method Type	Simplified	
Default Bolt Name		
Default Deck Concrete Name	Class QC2	
Default Deck Reinf Steel Name	Reinforcing Steel 1984 to Now	
Default Structural Steel Name	Structural Steel (1991 to Present)	
Default Weld Name		
Default Stirrup Reinf Steel Name		
Default Beam Reinf Steel Name		
Default Prestress Tendons Name		
Override LFD Factor Name		
Override LRFD Factor Name		
Override LRFR Factor Name		
LRFD Allow Moment Redistribution Indicator	false	
LRFD Allow Plastic Redistribution Indicator	false	
LRFD Use Appendix A6 For Flexural Resistance Indicator	false	
LRFR Allow Moment Redistribution Indicator	false	
LRFR Allow Plastic Redistribution Indicator	false	
LRFR Use Appendix A6 For Flexural Resistance Indicator	false	
LRFR Evaluate Remaining Fatigue Life Indicator	false	
LRFR Consider Flange Lateral Bending Stress Indicator	false	
LFD Allow Moment Redistribution Indicator	false	
LFD Include Bearing Stiffeners In Rating Indicator	true	
LRFD Ignore Long Reinf In Negative Moment Capacity	false	
LRFR Ignore Long Reinf In Negative Moment Capacity	false	
LFD Ignore Long Reinf In Negative Moment Capacity	false	
ASD Ignore Long Reinf In Negative Moment Capacity	false	
LRFD POI Generated At Stiffeners Indicator	false	
LRFR POI Generated At Stiffeners Indicator	false	
LFD Allow Plastic Analysis of Cover Plate Indicator	false	
LFD Ignore Shear Indicator	false	
Simple DL Continuous LL Indicator	false	
ASD Consider Deck Reinf Development Length Indicator	false	
LFD Consider Deck Reinf Development Length Indicator	false	
LRFR Consider Deck Reinf Development Length Indicator	false	
LRFD Consider Deck Reinf Development Length Indicator	false	
LRFR Consider Tension-Field Action in Stiffened Web End Panels	false	
LFD Consider Tension-Field Action in Stiffened Web End Panels	false	
LFD Use LRFD Shear Resistance for Curved Stiffened Interior Web Panels	false	
ASD Consider Tension-Field Action in Stiffened Web End Panels	false	
Cross Section Based Indicator	false	
Beam Projection Start	9.0000	in
Beam Projection End	9.0000	in
Impact Factor Type	Standard - AASHTO	
Impact Factor Adjustment	0.000	
Impact Factor Override	0.0	%
LRFD Constant Impact Factor	33.0	%
LRFD Fatigue Impact Factor	15.0	%
ASD Inv Rebar Factor		
ASD Inv Concrete Factor		
ASD Inv Structural Steel Factor		
ASD Inv Stirrup Factor		
ASD Inv Bearing Stiffener Factor		
ASD Opr Rebar Factor		
ASD Opr Concrete Factor		
ASD Opr Structural Steel Factor		
ASD Opr Stirrup Factor		
ASD Opr Bearing Stiffener Factor		
ASD Opr Timber Allow Stress Percent		
Default Rating Method	LFD	
LRFR Condition Factor	Good or Satisfactory	
LRFR System Factor Override	All Other Girder/Slab Bridges	
LRFD POI Tenth Points Indicator	true	
LRFR POI Tenth Points Indicator	true	
LFD POI Tenth Points Indicator	true	
ASD POI Tenth Points Indicator	true	
LRFD POI Section Change Points Indicator	true	
LRFR POI Section Change Points Indicator	true	
LFD POI Section Change Points Indicator	true	
ASD POI Section Change Points Indicator	true	
LRFD POI User-Defined Points Indicator	true	
LRFR POI User-Defined Points Indicator	true	

LFD POI User-Defined Points Indicator	true	
ASD POI User-Defined Points Indicator	true	
LRFD Distribution Factor Application Method Type	By Point of Interest	
LRFR Distribution Factor Application Method Type	By Point of Interest	
LFD Distribution Factor Input Method Type	By Point of Interest	
LRFR Field Measured Section Properties Indicator	false	
LRFR System Factor Override	false	
Self Load Case Name	true	
Additional Self Load		kip/ft
Additional Self Load Percentage		%
Default Nail Name		

Import Event

LRFD Live Load Distribution Factors

Action Type	Distance (ft)	Length (ft)	Single Lane Factor	Multi Lane Factor	Start Single Lane Factor	End Single Lane Factor	Start Multi Lane Factor	End Multi Lane Factor	Factor Variaton Type
Deflection	0.00	277.000	0.086	0.232	0.000	0.000	0.000	0.000	Constant
Moment	0.00	32.236	0.493	0.658	0.000	0.000	0.000	0.000	Constant
Shear	0.00	26.000	0.650	0.761	0.000	0.000	0.000	0.000	Constant
Shear	26.00	2.600	0.650	0.762	0.000	0.000	0.000	0.000	Constant
Shear	28.60	5.200	0.651	0.763	0.000	0.000	0.000	0.000	Constant
Moment	32.24	35.256	0.464	0.635	0.000	0.000	0.000	0.000	Constant
Shear	33.80	5.200	0.653	0.764	0.000	0.000	0.000	0.000	Constant
Shear	39.00	5.200	0.654	0.765	0.000	0.000	0.000	0.000	Constant
Shear	44.20	5.200	0.655	0.767	0.000	0.000	0.000	0.000	Constant
Shear	49.40	2.600	0.656	0.768	0.000	0.000	0.000	0.000	Constant
Shear	52.00	43.250	0.650	0.761	0.000	0.000	0.000	0.000	Constant
Moment	67.49	50.710	0.424	0.591	0.000	0.000	0.000	0.000	Constant
Shear	95.25	4.325	0.650	0.762	0.000	0.000	0.000	0.000	Constant
Shear	99.58	8.650	0.651	0.763	0.000	0.000	0.000	0.000	Constant
Shear	108.23	8.650	0.653	0.765	0.000	0.000	0.000	0.000	Constant
Shear	116.88	8.650	0.654	0.766	0.000	0.000	0.000	0.000	Constant
Moment	118.20	40.709	0.437	0.609	0.000	0.000	0.000	0.000	Constant
Shear	125.53	8.650	0.655	0.767	0.000	0.000	0.000	0.000	Constant
Shear	134.18	4.325	0.657	0.769	0.000	0.000	0.000	0.000	Constant
Shear	138.50	43.250	0.650	0.761	0.000	0.000	0.000	0.000	Constant
Moment	158.91	50.335	0.424	0.591	0.000	0.000	0.000	0.000	Constant
Shear	181.75	4.325	0.650	0.762	0.000	0.000	0.000	0.000	Constant
Shear	186.08	8.650	0.651	0.763	0.000	0.000	0.000	0.000	Constant
Shear	194.73	8.650	0.653	0.765	0.000	0.000	0.000	0.000	Constant
Shear	203.38	8.650	0.654	0.766	0.000	0.000	0.000	0.000	Constant
Moment	209.25	35.771	0.475	0.651	0.000	0.000	0.000	0.000	Constant
Shear	212.03	8.650	0.656	0.768	0.000	0.000	0.000	0.000	Constant
Shear	220.68	4.325	0.656	0.769	0.000	0.000	0.000	0.000	Constant
Shear	225.00	26.000	0.650	0.761	0.000	0.000	0.000	0.000	Constant
Moment	245.02	31.983	0.493	0.658	0.000	0.000	0.000	0.000	Constant
Shear	251.00	2.600	0.650	0.762	0.000	0.000	0.000	0.000	Constant
Shear	253.60	5.200	0.651	0.763	0.000	0.000	0.000	0.000	Constant
Shear	258.80	5.200	0.653	0.764	0.000	0.000	0.000	0.000	Constant
Shear	264.00	5.200	0.654	0.766	0.000	0.000	0.000	0.000	Constant
Shear	269.20	5.200	0.655	0.768	0.000	0.000	0.000	0.000	Constant
Shear	274.40	2.600	0.657	0.769	0.000	0.000	0.000	0.000	Constant

Steel Rolled Shape Range

Distance (ft)	Length (ft)	Steel Name	Steel Shape Name
0.00	52.00	ASTM A373 32 ksi	W 36x170
0.00	173.00	ASTM A373 32 ksi	W 36x230
0.00	52.00	ASTM A373 32 ksi	W 36x170

Steel Flange Cover Plate Ranges

Relative Position	Bolt Def Name	Num Of Bolts	Bolt Hole Pitch (in)	Bolt Hole Gage (in)	Side Weld Name	End Weld Name	Steel Name	Begin Width (in)	End Width (in)	Distance (ft)	Length (ft)	Thickness (in)
Top:1							ASTM A373 32 ksi	10.5000	10.5000	41.50	18.00	0.8750
Top:1							ASTM A373 32 ksi	15.0000	15.0000	77.00	19.00	0.6875
Top:1							ASTM A373 32 ksi	10.5000	10.5000	79.00	18.00	0.8750
Bottom:1							ASTM A373 32 ksi	18.0000	18.0000	41.50	18.00	0.6875
Bottom:1							ASTM A373 32 ksi	18.0000	18.0000	77.00	19.00	0.6875
Bottom:1							ASTM A373 32 ksi	18.0000	18.0000	79.00	18.00	0.8750

Deck Concrete Profile

Concrete Name	Distance (ft)	Structural Thickness (in)	Effective Width LRFD (in)	Effective Width Standard (in)	Length (ft)	Modular Ratio	Effective Width LRFD Start (in)	Effective Width Standard Start (in)	Effective Width LRFD End (in)	Effective Width Standard End (in)
Class QC2	0.00	8.5000	87.0000	87.0000	277.00	8.000	87.0000	87.0000	87.0000	87.0000

Deck Reinforcement Profile

Distance (ft)	Length (ft)	Number Of Bars	Bar Size	Rein Steel Name	Vert Distance (in)	Vert Distance Reference Type	Num Bars Std	Num Bars Lrfd	BarSpacing (in)
0.00	277.00	8.00	5	Reinforcing Steel 1984 to Now	2.4380	Bottom of Slab	8.00	8.00	10.0000
0.00	277.00	7.00	4	Reinforcing Steel 1984 to Now	2.7500	Top of Slab	7.00	7.00	12.5000
27.25	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000
30.25	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000
113.75	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000
116.75	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000
200.25	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000
203.25	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000

Shear Connector Profile

Connector Name	Distance (ft)	Length (ft)	Number Per Row	Number Of Spaces	Traverse Spacing (in)
	0.00	277.00			

Haunch Profile

Distance (ft)	Length (ft)	Y1 (in)	Y2 (in)	Y3 (in)	Z1 (in)	Z2 (in)	Z3 (in)	Z4 (in)
0.00	277.00	2.0000						

Lateral Support Range

Support Number	Distance (ft)	Length (ft)
1	0.00	277.00

Spec Selection

Analysis Method Type	Analysis Module	Selection Type	Spec Version Factors
ASD	AASHTO ASD	System Default	
LFD	AASHTO LFD	System Default	
LRFD	AASHTO LRFD	System Default	
LRFR	AASHTO LRFR	System Default	

Girder Member

Name	G8
Description	
Creation Timestamp	
Last Modified Timestamp	
Pedestrain Live Load Force	lb/ft
Member Alternative Name-Current	G8 Alt
Member Alternative Name-Existing	G8 Alt

Member Loads

Settlement

Load Case	Support Number	X Translation Settlement (in)	Y Translation Settlement (in)	Z Rotation Settlement (Radians)
	1			
	2			
	3			
	4			
	5			

Supports

General

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

Elastic

Override Z Rot Spring Const Indicator	Support Number	X Rotation Spring Constant (kip-in/rad)	X Translation Spring Constant (kip/ft)	Y Rotation Spring Constant (kip-in/rad)	Y Translation Spring Constant (kip/ft)	Z Rotation Spring Constant (kip-in/rad)	Z Translation Spring Constant (kip/ft)
False	1						
False	2						
False	3						
False	4						
False	5						

ThreeD General

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

ThreeD Elastic

Support Number	X Rotation	X Translation	Y Rotation	Y Translation	Z Rotation	Z Translation	Override Z Rot Spring Const Indicator

	Spring Constant (kip-in/rad)	Spring Constant (kip/ft)	Spring Constant (kip-in/rad)	Spring Constant (kip/ft)	Spring Constant (kip-in/rad)	Spring Constant (kip/ft)	
1							False
2							False
3							False
4							False
5							False

Member Alt - Steel Rolled Beam - Schd

Name	G8 Alt	
Description		
Creation Timestamp		
Last Modified Timestamp		
System Of Units	US Customary	
Default Rating Method	LFD	
LFD Single LL Factor Moment	1.036	
LFD Single LL Factor Shear	1.036	
LFD Single LL Factor Shear At Supports	1.172	
LFD Single LL Factor Deflection	0.143	
LFD Multi LL Factor Moment	1.318	
LFD Multi LL Factor Shear	1.318	
LFD Multi LL Factor Shear At Supports	1.621	
LFD Multi LL Factor Deflection	0.536	
Haunch Embedded Flange Indicator	false	
ASD Opr Rebar Factor		
ASD Opr Concrete Factor		
Haunch Type	Flange edges	
Deck Curing Method Type	Moist-cured	
ASD Inv PS Concrete Compr Factor		
ASD Inv PS Concrete Tens Factor:		
ASD Inv PS Concrete Mom Cap Factor		
ASD Opr PS Concrete Tens Factor		
ASD Opr PS Concrete Mom Cap Factor		
Deck Interface Type	Monolithic	
Deck Cohesion Factor	0.400	ksi
Deck Friction Factor	1.400	
Deck Interface Width		in
Default Interface Width To Beam Width Indicator	false	
Service Life	75.00	Years
Time Composite		Days
Time Analysis		Years
Time Continuous		Days
Deck Drying Time		Days
Deck Differential Shrinkage Indicator	false	
Beam Projection Start	9.0000	in
Beam Projection End	9.0000	in
Distribution Factor Input Method Type	Simplified	
Sufficiently connected to act as a unit	false	
Deck K1	0.250	
Deck K2	1.500	ksi
LFD DF for Permit Loads With Routine Traffic Indicator	true	
LRFD DF for Permit Loads With Routine Traffic Indicator	true	
LRFD Distribution Factor Input Method Type	Simplified	
Default Bolt Name		
Default Deck Concrete Name	Class QC2	
Default Deck Reinf Steel Name	Reinforcing Steel 1984 to Now	
Default Structural Steel Name	Structural Steel (1991 to Present)	
Default Weld Name		
Default Stirrup Reinf Steel Name		
Default Beam Reinf Steel Name		
Default Prestress Tendons Name		
Override LFD Factor Name		
Override LRFD Factor Name		
Override LRFR Factor Name		
LRFD Allow Moment Redistribution Indicator	false	
LRFD Allow Plastic Redistribution Indicator	false	
LRFD Use Appendix A6 For Flexural Resistance Indicator	false	
LRFR Allow Moment Redistribution Indicator	false	
LRFR Allow Plastic Redistribution Indicator	false	
LRFR Use Appendix A6 For Flexural Resistance Indicator	false	
LRFR Evaluate Remaining Fatigue Life Indicator	false	
LRFR Consider Flange Lateral Bending Stress Indicator	false	
LFD Allow Moment Redistribution Indicator	false	
LFD Include Bearing Stiffeners In Rating Indicator	true	
LRFD Ignore Long Reinf In Negative Moment Capacity	false	

LRFR Ignore Long Reinf In Negative Moment Capacity	false	
LFD Ignore Long Reinf In Negative Moment Capacity	false	
ASD Ignore Long Reinf In Negative Moment Capacity	false	
LRFD POI Generated At Stiffeners Indicator	false	
LRFR POI Generated At Stiffeners Indicator	false	
LFD Allow Plastic Analysis of Cover Plate Indicator	false	
LFD Ignore Shear Indicator	false	
Simple DL Continuous LL Indicator	false	
ASD Consider Deck Reinf Development Length Indicator	false	
LFD Consider Deck Reinf Development Length Indicator	false	
LRFR Consider Deck Reinf Development Length Indicator	false	
LRFD Consider Deck Reinf Development Length Indicator	false	
LRFR Consider Tension-Field Action in Stiffened Web End Panels	false	
LFD Consider Tension-Field Action in Stiffened Web End Panels	false	
LFD Use LRFD Shear Resistance for Curved Stiffened Interior Web Panels	false	
ASD Consider Tension-Field Action in Stiffened Web End Panels	false	
Cross Section Based Indicator	false	
Beam Projection Start	9.0000	in
Beam Projection End	9.0000	in
Impact Factor Type	Standard - AASHTO	
Impact Factor Adjustment	0.000	
Impact Factor Override	0.0	%
LRFD Constant Impact Factor	33.0	%
LRFD Fatigue Impact Factor	15.0	%
ASD Inv Rebar Factor		
ASD Inv Concrete Factor		
ASD Inv Structural Steel Factor		
ASD Inv Stirrup Factor		
ASD Inv Bearing Stiffener Factor		
ASD Opr Rebar Factor		
ASD Opr Concrete Factor		
ASD Opr Structural Steel Factor		
ASD Opr Stirrup Factor		
ASD Opr Bearing Stiffener Factor		
ASD Opr Timber Allow Stress Percent		
Default Rating Method	LFD	
LRFR Condition Factor	Good or Satisfactory	
LRFR System Factor Override	All Other Girder/Slab Bridges	
LRFD POI Tenth Points Indicator	true	
LRFR POI Tenth Points Indicator	true	
LFD POI Tenth Points Indicator	true	
ASD POI Tenth Points Indicator	true	
LRFD POI Section Change Points Indicator	true	
LRFR POI Section Change Points Indicator	true	
LFD POI Section Change Points Indicator	true	
ASD POI Section Change Points Indicator	true	
LRFD POI User-Defined Points Indicator	true	
LRFR POI User-Defined Points Indicator	true	
LFD POI User-Defined Points Indicator	true	
ASD POI User-Defined Points Indicator	true	
LRFD Distribution Factor Application Method Type	By Point of Interest	
LRFR Distribution Factor Application Method Type	By Point of Interest	
LFD Distribution Factor Input Method Type	By Point of Interest	
LRFR Field Measured Section Properties Indicator	false	
LRFR System Factor Override	false	
Self Load Case Name	true	
Additional Self Load		kip/ft
Additional Self Load Percentage		%
Default Nail Name		

Import Event

LRFD Live Load Distribution Factors

Action Type	Distance (ft)	Length (ft)	Single Lane Factor	Multi Lane Factor	Start Single Lane Factor	End Single Lane Factor	Start Multi Lane Factor	End Multi Lane Factor	Factor Variaton Type
Deflection	0.00	277.000	0.086	0.232	0.000	0.000	0.000	0.000	Constant
Moment	0.00	32.249	0.493	0.658	0.000	0.000	0.000	0.000	Constant
Shear	0.00	2.600	0.657	0.769	0.000	0.000	0.000	0.000	Constant
Shear	2.60	5.200	0.655	0.768	0.000	0.000	0.000	0.000	Constant
Shear	7.80	5.200	0.654	0.766	0.000	0.000	0.000	0.000	Constant
Shear	13.00	5.200	0.653	0.764	0.000	0.000	0.000	0.000	Constant
Shear	18.20	5.200	0.651	0.763	0.000	0.000	0.000	0.000	Constant
Shear	23.40	2.600	0.650	0.762	0.000	0.000	0.000	0.000	Constant

Shear	26.00	26.000	0.650	0.761	0.000	0.000	0.000	0.000	Constant
Moment	32.25	35.258	0.464	0.635	0.000	0.000	0.000	0.000	Constant
Shear	52.00	4.325	0.657	0.769	0.000	0.000	0.000	0.000	Constant
Shear	56.33	8.650	0.656	0.768	0.000	0.000	0.000	0.000	Constant
Shear	64.98	8.650	0.654	0.766	0.000	0.000	0.000	0.000	Constant
Moment	67.51	50.672	0.424	0.591	0.000	0.000	0.000	0.000	Constant
Shear	73.63	8.650	0.653	0.765	0.000	0.000	0.000	0.000	Constant
Shear	82.28	8.650	0.651	0.763	0.000	0.000	0.000	0.000	Constant
Shear	90.93	4.325	0.650	0.762	0.000	0.000	0.000	0.000	Constant
Shear	95.25	43.250	0.650	0.761	0.000	0.000	0.000	0.000	Constant
Moment	118.18	40.708	0.437	0.609	0.000	0.000	0.000	0.000	Constant
Shear	138.50	4.325	0.657	0.769	0.000	0.000	0.000	0.000	Constant
Shear	142.83	8.650	0.655	0.767	0.000	0.000	0.000	0.000	Constant
Shear	151.48	8.650	0.654	0.766	0.000	0.000	0.000	0.000	Constant
Moment	158.89	50.371	0.424	0.591	0.000	0.000	0.000	0.000	Constant
Shear	160.13	8.650	0.653	0.765	0.000	0.000	0.000	0.000	Constant
Shear	168.78	8.650	0.651	0.763	0.000	0.000	0.000	0.000	Constant
Shear	177.43	4.325	0.650	0.762	0.000	0.000	0.000	0.000	Constant
Shear	181.75	43.250	0.650	0.761	0.000	0.000	0.000	0.000	Constant
Moment	209.26	35.769	0.475	0.651	0.000	0.000	0.000	0.000	Constant
Shear	225.00	2.600	0.656	0.768	0.000	0.000	0.000	0.000	Constant
Shear	227.60	5.200	0.655	0.767	0.000	0.000	0.000	0.000	Constant
Shear	232.80	5.200	0.653	0.765	0.000	0.000	0.000	0.000	Constant
Shear	238.00	5.200	0.653	0.764	0.000	0.000	0.000	0.000	Constant
Shear	243.20	5.200	0.651	0.763	0.000	0.000	0.000	0.000	Constant
Moment	245.03	31.973	0.493	0.658	0.000	0.000	0.000	0.000	Constant
Shear	248.40	2.600	0.650	0.762	0.000	0.000	0.000	0.000	Constant
Shear	251.00	26.000	0.650	0.761	0.000	0.000	0.000	0.000	Constant

Steel Rolled Shape Range

Distance (ft)	Length (ft)	Steel Name	Steel Shape Name
0.00	52.00	ASTM A373 32 ksi	W 36x170
0.00	173.00	ASTM A373 32 ksi	W 36x230
0.00	52.00	ASTM A373 32 ksi	W 36x170

Steel Flange Cover Plate Ranges

Relative Position	Bolt Def Name	Num Of Bolts	Bolt Hole Pitch (in)	Bolt Hole Gage (in)	Side Weld Name	End Weld Name	Steel Name	Begin Width (in)	End Width (in)	Distance (ft)	Length (ft)	Thickness (in)
Top:1							ASTM A373 32 ksi	10.5000	10.5000	41.50	18.00	0.8750
Top:1							ASTM A373 32 ksi	15.0000	15.0000	77.00	19.00	0.6875
Top:1							ASTM A373 32 ksi	10.5000	10.5000	79.00	18.00	0.8750
Bottom:1							ASTM A373 32 ksi	18.0000	18.0000	41.50	18.00	0.6875
Bottom:1							ASTM A373 32 ksi	18.0000	18.0000	77.00	19.00	0.6875
Bottom:1							ASTM A373 32 ksi	18.0000	18.0000	79.00	18.00	0.8750

Deck Concrete Profile

Concrete Name	Distance (ft)	Structural Thickness (in)	Effective Width LRFD (in)	Effective Width Standard (in)	Length (ft)	Modular Ratio	Effective Width LRFD Start (in)	Effective Width Standard Start (in)	Effective Width LRFD End (in)	Effective Width Standard End (in)
Class QC2	0.00	8.5000	87.0000	87.0000	277.00	8.000	87.0000	87.0000	87.0000	87.0000

Deck Reinforcement Profile

Distance (ft)	Length (ft)	Number Of Bars	Bar Size	Rein Steel Name	Vert Distance (in)	Vert Distance Reference Type	Num Bars Std	Num Bars Lrfd	BarSpacing (in)
0.00	277.00	8.00	5	Reinforcing Steel 1984 to Now	2.4380	Bottom of Slab	8.00	8.00	10.0000
0.00	277.00	7.00	4	Reinforcing Steel 1984 to Now	2.7500	Top of Slab	7.00	7.00	12.5000
27.25	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000
30.25	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000
113.75	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000
116.75	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000
200.25	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000
203.25	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000

Shear Connector Profile

Connector Name	Distance (ft)	Length (ft)	Number Per Row	Number Of Spaces	Traverse Spacing (in)
	0.00	277.00			

Haunch Profile

Distance (ft)	Length (ft)	Y1 (in)	Y2 (in)	Y3 (in)	Z1 (in)	Z2 (in)	Z3 (in)	Z4 (in)
0.00	277.00	2.0000						

Lateral Support Range

Support Number	Distance (ft)	Length (ft)
1	0.00	277.00

Spec Selection

Analysis Method Type	Analysis Module	Selection Type	Spec Version Factors
ASD	AASHTO ASD	System Default	
LFD	AASHTO LFD	System Default	
LRFD	AASHTO LRFD	System Default	
LRFR	AASHTO LRFR	System Default	

Girder Member

Name	G9	
Description		
Creation Timestamp		
Last Modified Timestamp		
Pedestrain Live Load Force		lb/ft
Member Alternative Name-Current	G9 Alt	
Member Alternative Name-Existing	G9 Alt	

Member Loads

Settlement

Load Case	Support Number	X Translation Settlement (in)	Y Translation Settlement (in)	Z Rotation Settlement (Radians)
	1			

2
3
4
5

Supports

General

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

Elastic

Override Z Rot Spring Const Indicator	Support Number	X Rotation Spring Constant (kip-in/rad)	X Translation Spring Constant (kip/ft)	Y Rotation Spring Constant (kip-in/rad)	Y Translation Spring Constant (kip/ft)	Z Rotation Spring Constant (kip-in/rad)	Z Translation Spring Constant (kip/ft)
False	1						
False	2						
False	3						
False	4						
False	5						

ThreeD General

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

ThreeD Elastic

Support Number	X Rotation Spring Constant (kip-in/rad)	X Translation Spring Constant (kip/ft)	Y Rotation Spring Constant (kip-in/rad)	Y Translation Spring Constant (kip/ft)	Z Rotation Spring Constant (kip-in/rad)	Z Translation Spring Constant (kip/ft)	Override Z Rot Spring Const Indicator
1							False
2							False
3							False
4							False
5							False

Member Alt - Steel Rolled Beam - Schd

Name	G9 Alt
Description	
Creation Timestamp	
Last Modified Timestamp	
System Of Units	US Customary
Default Rating Method	LFD
LFD Single LL Factor Moment	1.036
LFD Single LL Factor Shear	1.036
LFD Single LL Factor Shear At Supports	1.172
LFD Single LL Factor Deflection	0.143
LFD Multi LL Factor Moment	1.318
LFD Multi LL Factor Shear	1.318
LFD Multi LL Factor Shear At Supports	1.621
LFD Multi LL Factor Deflection	0.536
Haunch Embedded Flange Indicator	false
ASD Opr Rebar Factor	
ASD Opr Concrete Factor	
Haunch Type	Flange edges

Deck Curing Method Type	Moist-cured	
ASD Inv PS Concrete Compr Factor		
ASD Inv PS Concrete Tens Factor:		
ASD Inv PS Concrete Mom Cap Factor		
ASD Opr PS Concrete Tens Factor		
ASD Opr PS Concrete Mom Cap Factor		
Deck Interface Type	Monolithic	
Deck Cohesion Factor	0.400	ksi
Deck Friction Factor	1.400	
Deck Interface Width		in
Default Interface Width To Beam Width Indicator	false	
Service Life	75.00	Years
Time Composite		Days
Time Analysis		Years
Time Continuous		Days
Deck Drying Time		Days
Deck Differential Shrinkage Indicator	false	
Beam Projection Start	9.0000	in
Beam Projection End	9.0000	in
Distribution Factor Input Method Type	Simplified	
Sufficiently connected to act as a unit	false	
Deck K1	0.250	
Deck K2	1.500	ksi
LFD DF for Permit Loads With Routine Traffic Indicator	true	
LRFD DF for Permit Loads With Routine Traffic Indicator	true	
LRFD Distribution Factor Input Method Type	Simplified	
Default Bolt Name		
Default Deck Concrete Name	Class QC2	
Default Deck Reinf Steel Name	Reinforcing Steel 1984 to Now	
Default Structural Steel Name	Structural Steel (1991 to Present)	
Default Weld Name		
Default Stirrup Reinf Steel Name		
Default Beam Reinf Steel Name		
Default Prestress Tendons Name		
Override LFD Factor Name		
Override LRFD Factor Name		
Override LRFR Factor Name		
LRFD Allow Moment Redistribution Indicator	false	
LRFD Allow Plastic Redistribution Indicator	false	
LRFD Use Appendix A6 For Flexural Resistance Indicator	false	
LRFR Allow Moment Redistribution Indicator	false	
LRFR Allow Plastic Redistribution Indicator	false	
LRFR Use Appendix A6 For Flexural Resistance Indicator	false	
LRFR Evaluate Remaining Fatigue Life Indicator	false	
LRFR Consider Flange Lateral Bending Stress Indicator	false	
LFD Allow Moment Redistribution Indicator	false	
LFD Include Bearing Stiffeners In Rating Indicator	true	
LRFD Ignore Long Reinf In Negative Moment Capacity	false	
LRFR Ignore Long Reinf In Negative Moment Capacity	false	
LFD Ignore Long Reinf In Negative Moment Capacity	false	
ASD Ignore Long Reinf In Negative Moment Capacity	false	
LRFD POI Generated At Stiffeners Indicator	false	
LRFR POI Generated At Stiffeners Indicator	false	
LFD Allow Plastic Analysis of Cover Plate Indicator	false	
LFD Ignore Shear Indicator	false	
Simple DL Continuous LL Indicator	false	
ASD Consider Deck Reinf Development Length Indicator	false	
LFD Consider Deck Reinf Development Length Indicator	false	
LRFR Consider Deck Reinf Development Length Indicator	false	
LRFD Consider Deck Reinf Development Length Indicator	false	
LRFR Consider Tension-Field Action in Stiffened Web End Panels	false	
LFD Consider Tension-Field Action in Stiffened Web End Panels	false	
LFD Use LRFD Shear Resistance for Curved Stiffened Interior Web Panels	false	
ASD Consider Tension-Field Action in Stiffened Web End Panels	false	
Cross Section Based Indicator	false	
Beam Projection Start	9.0000	in
Beam Projection End	9.0000	in
Impact Factor Type	Standard - AASHTO	
Impact Factor Adjustment	0.000	
Impact Factor Override	0.0	%
LRFD Constant Impact Factor	33.0	%
LRFD Fatigue Impact Factor	15.0	%
ASD Inv Rebar Factor		
ASD Inv Concrete Factor		
ASD Inv Structural Steel Factor		
ASD Inv Stirrup Factor		
ASD Inv Bearing Stiffener Factor		

ASD Opr Rebar Factor		
ASD Opr Concrete Factor		
ASD Opr Structural Steel Factor		
ASD Opr Stirrup Factor		
ASD Opr Bearing Stiffener Factor		
ASD Opr Timber Allow Stress Percent		
Default Rating Method	LFD	
LRFR Condition Factor	Good or Satisfactory	
LRFR System Factor Override	All Other Girder/Slab Bridges	
LRFD POI Tenth Points Indicator	true	
LRFR POI Tenth Points Indicator	true	
LFD POI Tenth Points Indicator	true	
ASD POI Tenth Points Indicator	true	
LRFD POI Section Change Points Indicator	true	
LRFR POI Section Change Points Indicator	true	
LFD POI Section Change Points Indicator	true	
ASD POI Section Change Points Indicator	true	
LRFD POI User-Defined Points Indicator	true	
LRFR POI User-Defined Points Indicator	true	
LFD POI User-Defined Points Indicator	true	
ASD POI User-Defined Points Indicator	true	
LRFD Distribution Factor Application Method Type	By Point of Interest	
LRFR Distribution Factor Application Method Type	By Point of Interest	
LFD Distribution Factor Input Method Type	By Point of Interest	
LRFR Field Measured Section Properties Indicator	false	
LRFR System Factor Override	false	
Self Load Case Name	true	
Additional Self Load		kip/ft
Additional Self Load Percentage		%
Default Nail Name		

Import Event

LRFD Live Load Distribution Factors

Action Type	Distance (ft)	Length (ft)	Single Lane Factor	Multi Lane Factor	Start Single Lane Factor	End Single Lane Factor	Start Multi Lane Factor	End Multi Lane Factor	Factor Variaton Type
Deflection	0.00	277.000	0.086	0.232	0.000	0.000	0.000	0.000	Constant
Moment	0.00	32.262	0.493	0.658	0.000	0.000	0.000	0.000	Constant
Shear	0.00	2.600	0.657	0.769	0.000	0.000	0.000	0.000	Constant
Shear	2.60	5.200	0.655	0.768	0.000	0.000	0.000	0.000	Constant
Shear	7.80	5.200	0.654	0.766	0.000	0.000	0.000	0.000	Constant
Shear	13.00	5.200	0.653	0.764	0.000	0.000	0.000	0.000	Constant
Shear	18.20	5.200	0.651	0.763	0.000	0.000	0.000	0.000	Constant
Shear	23.40	2.600	0.650	0.762	0.000	0.000	0.000	0.000	Constant
Shear	26.00	26.000	0.650	0.761	0.000	0.000	0.000	0.000	Constant
Moment	32.26	35.259	0.464	0.635	0.000	0.000	0.000	0.000	Constant
Shear	52.00	4.325	0.657	0.769	0.000	0.000	0.000	0.000	Constant
Shear	56.33	8.650	0.656	0.768	0.000	0.000	0.000	0.000	Constant
Shear	64.98	8.650	0.654	0.766	0.000	0.000	0.000	0.000	Constant
Moment	67.52	50.634	0.424	0.591	0.000	0.000	0.000	0.000	Constant
Shear	73.63	8.650	0.653	0.765	0.000	0.000	0.000	0.000	Constant
Shear	82.28	8.650	0.651	0.763	0.000	0.000	0.000	0.000	Constant
Shear	90.93	4.325	0.650	0.762	0.000	0.000	0.000	0.000	Constant
Shear	95.25	43.250	0.650	0.761	0.000	0.000	0.000	0.000	Constant
Moment	118.16	40.708	0.437	0.609	0.000	0.000	0.000	0.000	Constant
Shear	138.50	4.325	0.657	0.769	0.000	0.000	0.000	0.000	Constant
Shear	142.83	8.650	0.655	0.767	0.000	0.000	0.000	0.000	Constant
Shear	151.48	8.650	0.654	0.766	0.000	0.000	0.000	0.000	Constant
Moment	158.86	50.408	0.424	0.591	0.000	0.000	0.000	0.000	Constant
Shear	160.13	8.650	0.653	0.765	0.000	0.000	0.000	0.000	Constant
Shear	168.78	8.650	0.651	0.763	0.000	0.000	0.000	0.000	Constant
Shear	177.43	4.325	0.650	0.762	0.000	0.000	0.000	0.000	Constant
Shear	181.75	43.250	0.650	0.761	0.000	0.000	0.000	0.000	Constant
Moment	209.27	35.766	0.475	0.651	0.000	0.000	0.000	0.000	Constant
Shear	225.00	2.600	0.656	0.768	0.000	0.000	0.000	0.000	Constant
Shear	227.60	5.200	0.655	0.767	0.000	0.000	0.000	0.000	Constant
Shear	232.80	5.200	0.653	0.765	0.000	0.000	0.000	0.000	Constant

Shear	238.00	5.200	0.653	0.764	0.000	0.000	0.000	0.000	Constant
Shear	243.20	5.200	0.651	0.763	0.000	0.000	0.000	0.000	Constant
Moment	245.04	31.964	0.493	0.658	0.000	0.000	0.000	0.000	Constant
Shear	248.40	2.600	0.650	0.762	0.000	0.000	0.000	0.000	Constant
Shear	251.00	26.000	0.650	0.761	0.000	0.000	0.000	0.000	Constant

Steel Rolled Shape Range

Distance (ft)	Length (ft)	Steel Name	Steel Shape Name
0.00	52.00	ASTM A373 32 ksi	W 36x170
0.00	173.00	ASTM A373 32 ksi	W 36x230
0.00	52.00	ASTM A373 32 ksi	W 36x170

Steel Flange Cover Plate Ranges

Relative Position	Bolt Def Name	Num Of Bolts	Bolt Hole Pitch (in)	Bolt Hole Gage (in)	Side Weld Name	End Weld Name	Steel Name	Begin Width (in)	End Width (in)	Distance (ft)	Length (ft)	Thickness (in)
Top:1							ASTM A373 32 ksi	10.5000	10.5000	41.50	18.00	0.8750
Top:1							ASTM A373 32 ksi	15.0000	15.0000	77.00	19.00	0.6875
Top:1							ASTM A373 32 ksi	10.5000	10.5000	79.00	18.00	0.8750
Bottom:1							ASTM A373 32 ksi	18.0000	18.0000	41.50	18.00	0.6875
Bottom:1							ASTM A373 32 ksi	18.0000	18.0000	77.00	19.00	0.6875
Bottom:1							ASTM A373 32 ksi	18.0000	18.0000	79.00	18.00	0.8750

Deck Concrete Profile

Concrete Name	Distance (ft)	Structural Thickness (in)	Effective Width LRFD (in)	Effective Width Standard (in)	Length (ft)	Modular Ratio	Effective Width LRFD Start (in)	Effective Width Standard Start (in)	Effective Width LRFD End (in)	Effective Width Standard End (in)
Class QC2	0.00	8.5000	87.0000	87.0000	277.00	8.000	87.0000	87.0000	87.0000	87.0000

Deck Reinforcement Profile

Distance (ft)	Length (ft)	Number Of Bars	Bar Size	Rein Steel Name	Vert Distance (in)	Vert Distance Reference Type	Num Bars Std	Num Bars Lrfd	BarSpacing (in)
0.00	277.00	8.00	5	Reinforcing Steel 1984 to Now	2.4380	Bottom of Slab	8.00	8.00	10.0000
0.00	277.00	7.00	4	Reinforcing Steel 1984 to Now	2.7500	Top of Slab	7.00	7.00	12.5000
27.25	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000
30.25	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000
113.75	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000
116.75	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000
200.25	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000
203.25	46.50	7.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	7.00	7.00	12.5000

Shear Connector Profile

Connector Name	Number Per Row	Number Of Spaces

Distance (ft)	Length (ft)	Traverse Spacing (in)
0.00	277.00	

Haunch Profile

Distance (ft)	Length (ft)	Y1 (in)	Y2 (in)	Y3 (in)	Z1 (in)	Z2 (in)	Z3 (in)	Z4 (in)
0.00	277.00	2.0000						

Lateral Support Range

Support Number	Distance (ft)	Length (ft)
1	0.00	277.00

Spec Selection

Analysis Method Type	Analysis Module	Selection Type	Spec Version Factors
ASD	AASHTO ASD	System Default	
LFD	AASHTO LFD	System Default	
LRFD	AASHTO LRFD	System Default	
LRFR	AASHTO LRFR	System Default	

Girder Member

Name	G10
Description	
Creation Timestamp	
Last Modified Timestamp	
Pedestrain Live Load Force	lb/ft
Member Alternative Name-Current	G10 Alt
Member Alternative Name-Existing	G10 Alt

Member Loads

Settlement

Load Case	Support Number	X Translation Settlement (in)	Y Translation Settlement (in)	Z Rotation Settlement (Radians)
	1			
	2			
	3			
	4			
	5			

Supports

General

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

Elastic

Override Z Rot Spring Const Indicator	Support Number	X Rotation Spring Constant (kip-in/rad)	X Translation Spring Constant (kip/ft)	Y Rotation Spring Constant (kip-in/rad)	Y Translation Spring Constant (kip/ft)	Z Rotation Spring Constant (kip-in/rad)	Z Translation Spring Constant (kip/ft)
False	1						
False	2						

False	3
False	4
False	5

ThreeD General

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

ThreeD Elastic

Support Number	X Rotation Spring Constant (kip-in/rad)	X Translation Spring Constant (kip/ft)	Y Rotation Spring Constant (kip-in/rad)	Y Translation Spring Constant (kip/ft)	Z Rotation Spring Constant (kip-in/rad)	Z Translation Spring Constant (kip/ft)	Override Z Rot Spring Const Indicator
1							False
2							False
3							False
4							False
5							False

Member Alt - Steel Rolled Beam - Schd

Name	G10 Alt	
Description		
Creation Timestamp		
Last Modified Timestamp		
System Of Units	US Customary	
Default Rating Method	LFD	
LFD Single LL Factor Moment	0.946	
LFD Single LL Factor Shear	0.946	
LFD Single LL Factor Shear At Supports	1.172	
LFD Single LL Factor Deflection	0.143	
LFD Multi LL Factor Moment	1.205	
LFD Multi LL Factor Shear	1.205	
LFD Multi LL Factor Shear At Supports	1.506	
LFD Multi LL Factor Deflection	0.536	
Haunch Embedded Flange Indicator	false	
ASD Opr Rebar Factor		
ASD Opr Concrete Factor		
Haunch Type	Flange edges	
Deck Curing Method Type	Moist-cured	
ASD Inv PS Concrete Compr Factor		
ASD Inv PS Concrete Tens Factor:		
ASD Inv PS Concrete Mom Cap Factor		
ASD Opr PS Concrete Tens Factor		
ASD Opr PS Concrete Mom Cap Factor		
Deck Interface Type	Monolithic	
Deck Cohesion Factor	0.400	ksi
Deck Friction Factor	1.400	
Deck Interface Width		in
Default Interface Width To Beam Width Indicator	false	
Service Life	75.00	Years
Time Composite		Days
Time Analysis		Years
Time Continuous		Days
Deck Drying Time		Days
Deck Differential Shrinkage Indicator	false	
Beam Projection Start	9.0000	in
Beam Projection End	9.0000	in
Distribution Factor Input Method Type	Simplified	
Sufficiently connected to act as a unit	false	
Deck K1	0.250	
Deck K2	1.500	ksi
LFD DF for Permit Loads With Routine Traffic Indicator	true	
LRFD DF for Permit Loads With Routine Traffic Indicator	true	
LRFD Distribution Factor Input Method Type	Simplified	
Default Bolt Name		
Default Deck Concrete Name	Class QC2	

Default Deck Reinf Steel Name	Reinforcing Steel 1984 to Now	
Default Structural Steel Name	Structural Steel (1991 to Present)	
Default Weld Name		
Default Stirrup Reinf Steel Name		
Default Beam Reinf Steel Name		
Default Prestress Tendons Name		
Override LFD Factor Name		
Override LRFD Factor Name		
Override LRFR Factor Name		
LRFD Allow Moment Redistribution Indicator	false	
LRFD Allow Plastic Redistribution Indicator	false	
LRFD Use Appendix A6 For Flexural Resistance Indicator	false	
LRFR Allow Moment Redistribution Indicator	false	
LRFR Allow Plastic Redistribution Indicator	false	
LRFR Use Appendix A6 For Flexural Resistance Indicator	false	
LRFR Evaluate Remaining Fatigue Life Indicator	false	
LRFR Consider Flange Lateral Bending Stress Indicator	false	
LFD Allow Moment Redistribution Indicator	false	
LFD Include Bearing Stiffeners In Rating Indicator	true	
LRFD Ignore Long Reinf In Negative Moment Capacity	false	
LRFR Ignore Long Reinf In Negative Moment Capacity	false	
LFD Ignore Long Reinf In Negative Moment Capacity	false	
ASD Ignore Long Reinf In Negative Moment Capacity	false	
LRFD POI Generated At Stiffeners Indicator	false	
LRFR POI Generated At Stiffeners Indicator	false	
LFD Allow Plastic Analysis of Cover Plate Indicator	false	
LFD Ignore Shear Indicator	false	
Simple DL Continuous LL Indicator	false	
ASD Consider Deck Reinf Development Length Indicator	false	
LFD Consider Deck Reinf Development Length Indicator	false	
LRFR Consider Deck Reinf Development Length Indicator	false	
LRFD Consider Deck Reinf Development Length Indicator	false	
LRFR Consider Tension-Field Action in Stiffened Web End Panels	false	
LFD Consider Tension-Field Action in Stiffened Web End Panels	false	
LFD Use LRFD Shear Resistance for Curved Stiffened Interior Web Panels	false	
ASD Consider Tension-Field Action in Stiffened Web End Panels	false	
Cross Section Based Indicator	false	
Beam Projection Start	9.0000	in
Beam Projection End	9.0000	in
Impact Factor Type	Standard - AASHTO	
Impact Factor Adjustment	0.000	
Impact Factor Override	0.0	%
LRFD Constant Impact Factor	33.0	%
LRFD Fatigue Impact Factor	15.0	%
ASD Inv Rebar Factor		
ASD Inv Concrete Factor		
ASD Inv Structural Steel Factor		
ASD Inv Stirrup Factor		
ASD Inv Bearing Stiffener Factor		
ASD Opr Rebar Factor		
ASD Opr Concrete Factor		
ASD Opr Structural Steel Factor		
ASD Opr Stirrup Factor		
ASD Opr Bearing Stiffener Factor		
ASD Opr Timber Allow Stress Percent		
Default Rating Method	LFD	
LRFR Condition Factor	Good or Satisfactory	
LRFR System Factor Override	All Other Girder/Slab Bridges	
LRFD POI Tenth Points Indicator	true	
LRFR POI Tenth Points Indicator	true	
LFD POI Tenth Points Indicator	true	
ASD POI Tenth Points Indicator	true	
LRFD POI Section Change Points Indicator	true	
LRFR POI Section Change Points Indicator	true	
LFD POI Section Change Points Indicator	true	
ASD POI Section Change Points Indicator	true	
LRFD POI User-Defined Points Indicator	true	
LRFR POI User-Defined Points Indicator	true	
LFD POI User-Defined Points Indicator	true	
ASD POI User-Defined Points Indicator	true	
LRFD Distribution Factor Application Method Type	By Point of Interest	
LRFR Distribution Factor Application Method Type	By Point of Interest	
LFD Distribution Factor Input Method Type	By Point of Interest	
LRFR Field Measured Section Properties Indicator	false	
LRFR System Factor Override	false	
Self Load Case Name	true	
Additional Self Load		kip/ft

Additional Self Load Percentage %
Default Nail Name

Import Event

LRFD Live Load Distribution Factors

Action Type	Distance (ft)	Length (ft)	Single Lane Factor	Multi Lane Factor	Start Single Lane Factor	End Single Lane Factor	Start Multi Lane Factor	End Multi Lane Factor	Factor Variaton Type
Deflection	0.00	277.000	0.086	0.232	0.000	0.000	0.000	0.000	Constant
Moment	0.00	32.277	0.466	0.617	0.000	0.000	0.000	0.000	Constant
Shear	0.00	2.600	0.632	0.724	0.000	0.000	0.000	0.000	Constant
Shear	2.60	5.200	0.630	0.722	0.000	0.000	0.000	0.000	Constant
Shear	7.80	5.200	0.629	0.721	0.000	0.000	0.000	0.000	Constant
Shear	13.00	5.200	0.628	0.719	0.000	0.000	0.000	0.000	Constant
Shear	18.20	5.200	0.626	0.718	0.000	0.000	0.000	0.000	Constant
Shear	23.40	2.600	0.625	0.717	0.000	0.000	0.000	0.000	Constant
Shear	26.00	26.000	0.625	0.716	0.000	0.000	0.000	0.000	Constant
Moment	32.28	35.256	0.439	0.596	0.000	0.000	0.000	0.000	Constant
Shear	52.00	4.325	0.631	0.723	0.000	0.000	0.000	0.000	Constant
Shear	56.33	8.650	0.631	0.723	0.000	0.000	0.000	0.000	Constant
Shear	64.98	8.650	0.629	0.721	0.000	0.000	0.000	0.000	Constant
Moment	67.53	50.607	0.402	0.555	0.000	0.000	0.000	0.000	Constant
Shear	73.63	8.650	0.628	0.719	0.000	0.000	0.000	0.000	Constant
Shear	82.28	8.650	0.626	0.718	0.000	0.000	0.000	0.000	Constant
Shear	90.93	4.325	0.625	0.717	0.000	0.000	0.000	0.000	Constant
Shear	95.25	43.250	0.625	0.716	0.000	0.000	0.000	0.000	Constant
Moment	118.14	40.696	0.414	0.572	0.000	0.000	0.000	0.000	Constant
Shear	138.50	4.325	0.631	0.723	0.000	0.000	0.000	0.000	Constant
Shear	142.83	8.650	0.630	0.722	0.000	0.000	0.000	0.000	Constant
Shear	151.48	8.650	0.629	0.721	0.000	0.000	0.000	0.000	Constant
Moment	158.84	50.452	0.402	0.555	0.000	0.000	0.000	0.000	Constant
Shear	160.13	8.650	0.628	0.719	0.000	0.000	0.000	0.000	Constant
Shear	168.78	8.650	0.626	0.718	0.000	0.000	0.000	0.000	Constant
Shear	177.43	4.325	0.625	0.717	0.000	0.000	0.000	0.000	Constant
Shear	181.75	43.250	0.625	0.716	0.000	0.000	0.000	0.000	Constant
Moment	209.29	35.753	0.450	0.610	0.000	0.000	0.000	0.000	Constant
Shear	225.00	2.600	0.631	0.723	0.000	0.000	0.000	0.000	Constant
Shear	227.60	5.200	0.629	0.721	0.000	0.000	0.000	0.000	Constant
Shear	232.80	5.200	0.628	0.720	0.000	0.000	0.000	0.000	Constant
Shear	238.00	5.200	0.628	0.719	0.000	0.000	0.000	0.000	Constant
Shear	243.20	5.200	0.626	0.718	0.000	0.000	0.000	0.000	Constant
Moment	245.04	31.959	0.466	0.617	0.000	0.000	0.000	0.000	Constant
Shear	248.40	2.600	0.625	0.717	0.000	0.000	0.000	0.000	Constant
Shear	251.00	26.000	0.625	0.716	0.000	0.000	0.000	0.000	Constant

Steel Rolled Shape Range

Distance (ft)	Length (ft)	Steel Name	Steel Shape Name
0.00	52.00	ASTM A373 32 ksi	W 36x170
0.00	173.00	ASTM A373 32 ksi	W 36x230
0.00	52.00	ASTM A373 32 ksi	W 36x170

Steel Flange Cover Plate Ranges

Relative Position	Bolt Def Name	Num Of Bolts	Bolt Hole Pitch (in)	Bolt Hole Gage (in)	Side Weld Name	End Weld Name	Steel Name	Begin Width (in)	End Width (in)	Distance (ft)	Length (ft)	Thickness (in)
Top:1							ASTM A373 32 ksi	10.5000	10.5000	41.50	18.00	0.8750
Top:1							ASTM A373 32 ksi	15.0000	15.0000	77.00	19.00	0.6875

Top:1	ASTM A373 32 ksi	10.5000	10.5000	79.00	18.00	0.8750
Bottom:1	ASTM A373 32 ksi	18.0000	18.0000	41.50	18.00	0.6875
Bottom:1	ASTM A373 32 ksi	18.0000	18.0000	77.00	19.00	0.6875
Bottom:1	ASTM A373 32 ksi	18.0000	18.0000	79.00	18.00	0.8750

Deck Concrete Profile

Concrete Name	Distance (ft)	Structural Thickness (in)	Effective Width LRFD (in)	Effective Width Standard (in)	Length (ft)	Modular Ratio	Effective Width LRFD Start (in)	Effective Width Standard Start (in)	Effective Width LRFD End (in)	Effective Width Standard End (in)
Class QC2	0.00	8.5000	79.5000	79.5000	277.00	8.000	79.5000	79.5000	79.5000	79.5000

Deck Reinforcement Profile

Distance (ft)	Length (ft)	Number Of Bars	Bar Size	Rein Steel Name	Vert Distance (in)	Vert Distance Reference Type	Num Bars Std	Num Bars Lrfd	BarSpacing (in)
0.00	277.00	7.00	5	Reinforcing Steel 1984 to Now	2.4380	Bottom of Slab	7.00	7.00	10.4000
0.00	277.00	6.00	4	Reinforcing Steel 1984 to Now	2.7500	Top of Slab	6.00	6.00	12.5000
27.25	46.50	6.50	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	6.50	6.50	12.5000
30.25	46.50	6.50	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	6.50	6.50	12.5000
113.75	46.50	6.50	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	6.50	6.50	12.5000
116.75	46.50	6.50	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	6.50	6.50	12.5000
200.25	46.50	6.50	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	6.50	6.50	12.5000
203.25	46.50	6.50	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	6.50	6.50	12.5000

Shear Connector Profile

Connector Name	Distance (ft)	Length (ft)	Number Per Row	Number Of Spaces	Traverse Spacing (in)
	0.00	277.00			

Haunch Profile

Distance (ft)	Length (ft)	Y1 (in)	Y2 (in)	Y3 (in)	Z1 (in)	Z2 (in)	Z3 (in)	Z4 (in)
0.00	277.00	2.0000						

Lateral Support Range

Support Number	Distance (ft)	Length (ft)
1	0.00	277.00

Spec Selection

Analysis Method Type	Analysis Module	Selection Type	Spec Version Factors
ASD	AASHTO ASD	System Default	
LFD	AASHTO LFD	System Default	
LRFD	AASHTO LRFD	System Default	
LRFR	AASHTO LRFR	System Default	

Girder Member

Name	G11
Description	
Creation Timestamp	
Last Modified Timestamp	
Pedestrain Live Load Force	lb/ft
Member Alternative Name-Current	G11 Alt
Member Alternative Name-Existing	G11 Alt

Member Loads

Settlement

Load Case	Support Number	X Translation Settlement (in)	Y Translation Settlement (in)	Z Rotation Settlement (Radians)
	1			
	2			
	3			
	4			
	5			

Supports

General

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

Elastic

Override Z Rot Spring Const Indicator	Support Number	X Rotation Spring Constant (kip-in/rad)	X Translation Spring Constant (kip/ft)	Y Rotation Spring Constant (kip-in/rad)	Y Translation Spring Constant (kip/ft)	Z Rotation Spring Constant (kip-in/rad)	Z Translation Spring Constant (kip/ft)
False	1						
False	2						
False	3						
False	4						
False	5						

ThreeD General

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

ThreeD Elastic

Support Number	X Rotation Spring Constant (kip-in/rad)	X Translation Spring Constant (kip/ft)	Y Rotation Spring Constant (kip-in/rad)	Y Translation Spring Constant (kip/ft)	Z Rotation Spring Constant (kip-in/rad)	Z Translation Spring Constant (kip/ft)	Override Z Rot Spring Const Indicator
1							False
2							False
3							False
4							False
5							False

Member Alt - Steel Rolled Beam - Schd

Name	G11 Alt	
Description		
Creation Timestamp		
Last Modified Timestamp		
System Of Units	US Customary	
Default Rating Method	LFD	
LFD Single LL Factor Moment	0.857	
LFD Single LL Factor Shear	0.857	
LFD Single LL Factor Shear At Supports	1.000	
LFD Single LL Factor Deflection	0.143	
LFD Multi LL Factor Moment	1.091	
LFD Multi LL Factor Shear	1.091	
LFD Multi LL Factor Shear At Supports	1.333	
LFD Multi LL Factor Deflection	0.536	
Haunch Embedded Flange Indicator	false	
ASD Opr Rebar Factor		
ASD Opr Concrete Factor		
Haunch Type	Flange edges	
Deck Curing Method Type	Moist-cured	
ASD Inv PS Concrete Compr Factor		
ASD Inv PS Concrete Tens Factor:		
ASD Inv PS Concrete Mom Cap Factor		
ASD Opr PS Concrete Tens Factor		
ASD Opr PS Concrete Mom Cap Factor		
Deck Interface Type	Monolithic	
Deck Cohesion Factor	0.400	ksi
Deck Friction Factor	1.400	
Deck Interface Width		in
Default Interface Width To Beam Width Indicator	false	
Service Life	75.00	Years
Time Composite		Days
Time Analysis		Years
Time Continuous		Days
Deck Drying Time		Days
Deck Differential Shrinkage Indicator	false	
Beam Projection Start	9.0000	in
Beam Projection End	9.0000	in
Distribution Factor Input Method Type	Simplified	
Sufficiently connected to act as a unit	false	
Deck K1	0.250	
Deck K2	1.500	ksi
LFD DF for Permit Loads With Routine Traffic Indicator	true	
LRFD DF for Permit Loads With Routine Traffic Indicator	true	
LRFD Distribution Factor Input Method Type	Simplified	
Default Bolt Name		
Default Deck Concrete Name	Class QC2	
Default Deck Reinf Steel Name	Reinforcing Steel 1984 to Now	
Default Structural Steel Name	Structural Steel (1991 to Present)	
Default Weld Name		
Default Stirrup Reinf Steel Name		
Default Beam Reinf Steel Name		
Default Prestress Tendons Name		
Override LFD Factor Name		
Override LRFD Factor Name		
Override LRFR Factor Name		
LRFD Allow Moment Redistribution Indicator	false	
LRFD Allow Plastic Redistribution Indicator	false	
LRFD Use Appendix A6 For Flexural Resistance Indicator	false	
LRFR Allow Moment Redistribution Indicator	false	
LRFR Allow Plastic Redistribution Indicator	false	
LRFR Use Appendix A6 For Flexural Resistance Indicator	false	
LRFR Evaluate Remaining Fatigue Life Indicator	false	
LRFR Consider Flange Lateral Bending Stress Indicator	false	
LFD Allow Moment Redistribution Indicator	false	
LFD Include Bearing Stiffeners In Rating Indicator	true	
LRFD Ignore Long Reinf In Negative Moment Capacity	false	
LRFR Ignore Long Reinf In Negative Moment Capacity	false	
LFD Ignore Long Reinf In Negative Moment Capacity	false	
ASD Ignore Long Reinf In Negative Moment Capacity	false	
LRFD POI Generated At Stiffeners Indicator	false	
LRFR POI Generated At Stiffeners Indicator	false	
LFD Allow Plastic Analysis of Cover Plate Indicator	false	
LFD Ignore Shear Indicator	false	
Simple DL Continuous LL Indicator	false	
ASD Consider Deck Reinf Development Length Indicator	false	

LFD Consider Deck Reinf Development Length Indicator	false	
LRFR Consider Deck Reinf Development Length Indicator	false	
LRFD Consider Deck Reinf Development Length Indicator	false	
LRFR Consider Tension-Field Action in Stiffened Web End Panels	false	
LFD Consider Tension-Field Action in Stiffened Web End Panels	false	
LFD Use LRFD Shear Resistance for Curved Stiffened Interior Web Panels	false	
ASD Consider Tension-Field Action in Stiffened Web End Panels	false	
Cross Section Based Indicator	false	
Beam Projection Start	9.0000	in
Beam Projection End	9.0000	in
Impact Factor Type	Standard - AASHTO	
Impact Factor Adjustment	0.000	
Impact Factor Override	0.0	%
LRFD Constant Impact Factor	33.0	%
LRFD Fatigue Impact Factor	15.0	%
ASD Inv Rebar Factor		
ASD Inv Concrete Factor		
ASD Inv Structural Steel Factor		
ASD Inv Stirrup Factor		
ASD Inv Bearing Stiffener Factor		
ASD Opr Rebar Factor		
ASD Opr Concrete Factor		
ASD Opr Structural Steel Factor		
ASD Opr Stirrup Factor		
ASD Opr Bearing Stiffener Factor		
ASD Opr Timber Allow Stress Percent		
Default Rating Method	LFD	
LRFR Condition Factor	Good or Satisfactory	
LRFR System Factor Override	All Other Girder/Slab Bridges	
LRFD POI Tenth Points Indicator	true	
LRFR POI Tenth Points Indicator	true	
LFD POI Tenth Points Indicator	true	
ASD POI Tenth Points Indicator	true	
LRFD POI Section Change Points Indicator	true	
LRFR POI Section Change Points Indicator	true	
LFD POI Section Change Points Indicator	true	
ASD POI Section Change Points Indicator	true	
LRFD POI User-Defined Points Indicator	true	
LRFR POI User-Defined Points Indicator	true	
LFD POI User-Defined Points Indicator	true	
ASD POI User-Defined Points Indicator	true	
LRFD Distribution Factor Application Method Type	By Point of Interest	
LRFR Distribution Factor Application Method Type	By Point of Interest	
LFD Distribution Factor Input Method Type	By Point of Interest	
LRFR Field Measured Section Properties Indicator	false	
LRFR System Factor Override	false	
Self Load Case Name	true	
Additional Self Load		kip/ft
Additional Self Load Percentage		%
Default Nail Name		

Import Event

LRFD Live Load Distribution Factors

Action Type	Distance (ft)	Length (ft)	Single Lane Factor	Multi Lane Factor	Start Single Lane Factor	End Single Lane Factor	Start Multi Lane Factor	End Multi Lane Factor	Factor Variaton Type
Deflection	0.00	277.000	0.086	0.232	0.000	0.000	0.000	0.000	Constant
Moment	0.00	32.822	0.452	0.593	0.000	0.000	0.000	0.000	Constant
Shear	0.00	2.600	0.606	0.677	0.000	0.000	0.000	0.000	Constant
Shear	2.60	5.200	0.605	0.676	0.000	0.000	0.000	0.000	Constant
Shear	7.80	5.200	0.603	0.674	0.000	0.000	0.000	0.000	Constant
Shear	13.00	5.200	0.602	0.673	0.000	0.000	0.000	0.000	Constant
Shear	18.20	5.200	0.601	0.672	0.000	0.000	0.000	0.000	Constant
Shear	23.40	2.600	0.600	0.671	0.000	0.000	0.000	0.000	Constant
Shear	26.00	26.000	0.600	0.671	0.000	0.000	0.000	0.000	Constant
Moment	32.82	33.991	0.410	0.551	0.000	0.000	0.000	0.000	Constant
Shear	52.00	4.325	0.607	0.678	0.000	0.000	0.000	0.000	Constant
Shear	56.33	8.650	0.605	0.677	0.000	0.000	0.000	0.000	Constant
Shear	64.98	8.650	0.604	0.675	0.000	0.000	0.000	0.000	Constant
Moment	66.81	52.421	0.380	0.520	0.000	0.000	0.000	0.000	Constant
Shear	73.63	8.650	0.603	0.674	0.000	0.000	0.000	0.000	Constant

Shear	82.28	8.650	0.601	0.672	0.000	0.000	0.000	0.000	Constant
Shear	90.93	4.325	0.600	0.671	0.000	0.000	0.000	0.000	Constant
Shear	95.25	43.250	0.600	0.671	0.000	0.000	0.000	0.000	Constant
Moment	119.24	38.480	0.380	0.520	0.000	0.000	0.000	0.000	Constant
Shear	138.50	4.325	0.607	0.678	0.000	0.000	0.000	0.000	Constant
Shear	142.83	8.650	0.605	0.677	0.000	0.000	0.000	0.000	Constant
Shear	151.48	8.650	0.604	0.675	0.000	0.000	0.000	0.000	Constant
Moment	157.72	52.471	0.380	0.520	0.000	0.000	0.000	0.000	Constant
Shear	160.13	8.650	0.603	0.674	0.000	0.000	0.000	0.000	Constant
Shear	168.78	8.650	0.601	0.672	0.000	0.000	0.000	0.000	Constant
Shear	177.43	4.325	0.600	0.671	0.000	0.000	0.000	0.000	Constant
Shear	181.75	43.250	0.600	0.671	0.000	0.000	0.000	0.000	Constant
Moment	210.19	33.985	0.410	0.551	0.000	0.000	0.000	0.000	Constant
Shear	225.00	2.600	0.606	0.677	0.000	0.000	0.000	0.000	Constant
Shear	227.60	5.200	0.605	0.676	0.000	0.000	0.000	0.000	Constant
Shear	232.80	5.200	0.603	0.674	0.000	0.000	0.000	0.000	Constant
Shear	238.00	5.200	0.602	0.673	0.000	0.000	0.000	0.000	Constant
Shear	243.20	5.200	0.601	0.672	0.000	0.000	0.000	0.000	Constant
Moment	244.17	32.829	0.452	0.593	0.000	0.000	0.000	0.000	Constant
Shear	248.40	2.600	0.600	0.671	0.000	0.000	0.000	0.000	Constant
Shear	251.00	26.000	0.600	0.671	0.000	0.000	0.000	0.000	Constant

Steel Rolled Shape Range

Distance (ft)	Length (ft)	Steel Name	Steel Shape Name
0.00	277.00	Structural Steel (1991 to Present)	W 36x231

Deck Concrete Profile

Concrete Name	Distance (ft)	Structural Thickness (in)	Effective Width LRFD (in)	Effective Width Standard (in)	Length (ft)	Modular Ratio	Effective Width LRFD Start (in)	Effective Width Standard Start (in)	Effective Width LRFD End (in)	Effective Width Standard End (in)
Class QC2	0.00	8.5000	72.0000	72.0000	277.00	8.000	72.0000	72.0000	72.0000	72.0000

Deck Reinforcement Profile

Distance (ft)	Length (ft)	Number Of Bars	Bar Size	Rein Steel Name	Vert Distance (in)	Vert Distance Reference Type	Num Bars Std	Num Bars Lrfd	BarSpacing (in)
0.00	277.00	6.00	5	Reinforcing Steel 1984 to Now	2.4380	Bottom of Slab	6.00	6.00	10.8000
0.00	277.00	6.00	4	Reinforcing Steel 1984 to Now	2.7500	Top of Slab	6.00	6.00	12.5000
27.75	46.50	6.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	6.00	6.00	12.5000
30.25	46.50	6.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	6.00	6.00	12.5000
113.75	46.50	6.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	6.00	6.00	12.5000
116.75	46.50	6.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	6.00	6.00	12.5000
200.25	46.50	6.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	6.00	6.00	12.5000
203.25	46.50	6.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	6.00	6.00	12.5000

Shear Connector Profile

Connector Name	Distance (ft)	Length (ft)	Number Per Row	Number Of Spaces	Traverse Spacing (in)
	0.00	277.00			

Haunch Profile

Distance (ft)	Length (ft)	Y1 (in)	Y2 (in)	Y3 (in)	Z1 (in)	Z2 (in)	Z3 (in)	Z4 (in)
0.00	277.00	2.0000						

Lateral Support Range

Support Number	Distance (ft)	Length (ft)
1	0.00	277.00

Spec Selection

Analysis Method Type	Analysis Module	Selection Type	Spec Version Factors
ASD	AASHTO ASD	System Default	
LFD	AASHTO LFD	System Default	
LRFD	AASHTO LRFD	System Default	
LRFR	AASHTO LRFR	System Default	

Girder Member

Name	G12
Description	
Creation Timestamp	
Last Modified Timestamp	
Pedestrain Live Load Force	lb/ft
Member Alternative Name-Current	G12 Alt
Member Alternative Name-Existing	G12 Alt

Member Loads

Settlement

Load Case	Support Number	X Translation Settlement (in)	Y Translation Settlement (in)	Z Rotation Settlement (Radians)
	1			
	2			
	3			
	4			
	5			

Supports

General

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

Elastic

Override Z Rot Spring Const Indicator	Support Number	X Rotation Spring Constant (kip-in/rad)	X Translation Spring Constant (kip/ft)	Y Rotation Spring Constant (kip-in/rad)	Y Translation Spring Constant (kip/ft)	Z Rotation Spring Constant (kip-in/rad)	Z Translation Spring Constant (kip/ft)
False	1						
False	2						
False	3						
False	4						
False	5						

ThreeD General

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

ThreeD Elastic

Support Number	X Rotation Spring Constant (kip-in/rad)	X Translation Spring Constant (kip/ft)	Y Rotation Spring Constant (kip-in/rad)	Y Translation Spring Constant (kip/ft)	Z Rotation Spring Constant (kip-in/rad)	Z Translation Spring Constant (kip/ft)	Override Z Rot Spring Const Indicator
1							False
2							False
3							False
4							False
5							False

Member Alt - Steel Rolled Beam - Schd

Name	G12 Alt	
Description		
Creation Timestamp		
Last Modified Timestamp		
System Of Units	US Customary	
Default Rating Method	LFD	
LFD Single LL Factor Moment	0.857	
LFD Single LL Factor Shear	0.857	
LFD Single LL Factor Shear At Supports	1.000	
LFD Single LL Factor Deflection	0.143	
LFD Multi LL Factor Moment	1.091	
LFD Multi LL Factor Shear	1.091	
LFD Multi LL Factor Shear At Supports	1.333	
LFD Multi LL Factor Deflection	0.536	
Haunch Embedded Flange Indicator	false	
ASD Opr Rebar Factor		
ASD Opr Concrete Factor		
Haunch Type	Flange edges	
Deck Curing Method Type	Moist-cured	
ASD Inv PS Concrete Compr Factor		
ASD Inv PS Concrete Tens Factor:		
ASD Inv PS Concrete Mom Cap Factor		
ASD Opr PS Concrete Tens Factor		
ASD Opr PS Concrete Mom Cap Factor		
Deck Interface Type	Monolithic	
Deck Cohesion Factor	0.400	ksi
Deck Friction Factor	1.400	
Deck Interface Width		in
Default Interface Width To Beam Width Indicator	false	
Service Life	75.00	Years
Time Composite		Days
Time Analysis		Years
Time Continuous		Days
Deck Drying Time		Days
Deck Differential Shrinkage Indicator	false	
Beam Projection Start	9.0000	in
Beam Projection End	9.0000	in
Distribution Factor Input Method Type	Simplified	
Sufficiently connected to act as a unit	false	
Deck K1	0.250	
Deck K2	1.500	ksi
LFD DF for Permit Loads With Routine Traffic Indicator	true	
LRFD DF for Permit Loads With Routine Traffic Indicator	true	
LRFD Distribution Factor Input Method Type	Simplified	
Default Bolt Name		
Default Deck Concrete Name	Class QC2	
Default Deck Reinf Steel Name	Reinforcing Steel 1984 to Now	
Default Structural Steel Name	Structural Steel (1991 to Present)	
Default Weld Name		
Default Stirrup Reinf Steel Name		
Default Beam Reinf Steel Name		

Default Prestress Tendons Name		
Override LFD Factor Name		
Override LRFD Factor Name		
Override LRFR Factor Name		
LRFD Allow Moment Redistribution Indicator	false	
LRFD Allow Plastic Redistribution Indicator	false	
LRFD Use Appendix A6 For Flexural Resistance Indicator	false	
LRFR Allow Moment Redistribution Indicator	false	
LRFR Allow Plastic Redistribution Indicator	false	
LRFR Use Appendix A6 For Flexural Resistance Indicator	false	
LRFR Evaluate Remaining Fatigue Life Indicator	false	
LRFR Consider Flange Lateral Bending Stress Indicator	false	
LFD Allow Moment Redistribution Indicator	false	
LFD Include Bearing Stiffeners In Rating Indicator	true	
LRFD Ignore Long Reinf In Negative Moment Capacity	false	
LRFR Ignore Long Reinf In Negative Moment Capacity	false	
LFD Ignore Long Reinf In Negative Moment Capacity	false	
ASD Ignore Long Reinf In Negative Moment Capacity	false	
LRFD POI Generated At Stiffeners Indicator	false	
LRFR POI Generated At Stiffeners Indicator	false	
LFD Allow Plastic Analysis of Cover Plate Indicator	false	
LFD Ignore Shear Indicator	false	
Simple DL Continuous LL Indicator	false	
ASD Consider Deck Reinf Development Length Indicator	false	
LFD Consider Deck Reinf Development Length Indicator	false	
LRFR Consider Deck Reinf Development Length Indicator	false	
LRFD Consider Deck Reinf Development Length Indicator	false	
LRFR Consider Tension-Field Action in Stiffened Web End Panels	false	
LFD Consider Tension-Field Action in Stiffened Web End Panels	false	
LFD Use LRFD Shear Resistance for Curved Stiffened Interior Web Panels	false	
ASD Consider Tension-Field Action in Stiffened Web End Panels	false	
Cross Section Based Indicator	false	
Beam Projection Start	9.0000	in
Beam Projection End	9.0000	in
Impact Factor Type	Standard - AASHTO	
Impact Factor Adjustment	0.000	
Impact Factor Override	0.0	%
LRFD Constant Impact Factor	33.0	%
LRFD Fatigue Impact Factor	15.0	%
ASD Inv Rebar Factor		
ASD Inv Concrete Factor		
ASD Inv Structural Steel Factor		
ASD Inv Stirrup Factor		
ASD Inv Bearing Stiffener Factor		
ASD Opr Rebar Factor		
ASD Opr Concrete Factor		
ASD Opr Structural Steel Factor		
ASD Opr Stirrup Factor		
ASD Opr Bearing Stiffener Factor		
ASD Opr Timber Allow Stress Percent		
Default Rating Method	LFD	
LRFR Condition Factor	Good or Satisfactory	
LRFR System Factor Override	All Other Girder/Slab Bridges	
LRFD POI Tenth Points Indicator	true	
LRFR POI Tenth Points Indicator	true	
LFD POI Tenth Points Indicator	true	
ASD POI Tenth Points Indicator	true	
LRFD POI Section Change Points Indicator	true	
LRFR POI Section Change Points Indicator	true	
LFD POI Section Change Points Indicator	true	
ASD POI Section Change Points Indicator	true	
LRFD POI User-Defined Points Indicator	true	
LRFR POI User-Defined Points Indicator	true	
LFD POI User-Defined Points Indicator	true	
ASD POI User-Defined Points Indicator	true	
LRFD Distribution Factor Application Method Type	By Point of Interest	
LRFR Distribution Factor Application Method Type	By Point of Interest	
LFD Distribution Factor Input Method Type	By Point of Interest	
LRFR Field Measured Section Properties Indicator	false	
LRFR System Factor Override	false	
Self Load Case Name	true	
Additional Self Load		kip/ft
Additional Self Load Percentage		%
Default Nail Name		

Import Event

LRFD Live Load Distribution Factors

Action Type	Distance (ft)	Length (ft)	Single Lane Factor	Multi Lane Factor	Start Single Lane Factor	End Single Lane Factor	Start Multi Lane Factor	End Multi Lane Factor	Factor Variaton Type
Deflection	0.00	277.000	0.086	0.232	0.000	0.000	0.000	0.000	Constant
Moment	0.00	32.789	0.452	0.593	0.000	0.000	0.000	0.000	Constant
Shear	0.00	2.600	0.606	0.677	0.000	0.000	0.000	0.000	Constant
Shear	2.60	5.200	0.605	0.676	0.000	0.000	0.000	0.000	Constant
Shear	7.80	5.200	0.603	0.674	0.000	0.000	0.000	0.000	Constant
Shear	13.00	5.200	0.602	0.673	0.000	0.000	0.000	0.000	Constant
Shear	18.20	5.200	0.601	0.672	0.000	0.000	0.000	0.000	Constant
Shear	23.40	2.600	0.600	0.671	0.000	0.000	0.000	0.000	Constant
Shear	26.00	26.000	0.600	0.671	0.000	0.000	0.000	0.000	Constant
Moment	32.79	34.041	0.410	0.551	0.000	0.000	0.000	0.000	Constant
Shear	52.00	4.325	0.607	0.678	0.000	0.000	0.000	0.000	Constant
Shear	56.33	8.650	0.605	0.677	0.000	0.000	0.000	0.000	Constant
Shear	64.98	8.650	0.604	0.675	0.000	0.000	0.000	0.000	Constant
Moment	66.83	52.425	0.380	0.520	0.000	0.000	0.000	0.000	Constant
Shear	73.63	8.650	0.603	0.674	0.000	0.000	0.000	0.000	Constant
Shear	82.28	8.650	0.601	0.672	0.000	0.000	0.000	0.000	Constant
Shear	90.93	4.325	0.600	0.671	0.000	0.000	0.000	0.000	Constant
Shear	95.25	43.250	0.600	0.671	0.000	0.000	0.000	0.000	Constant
Moment	119.25	38.448	0.380	0.520	0.000	0.000	0.000	0.000	Constant
Shear	138.50	4.325	0.607	0.678	0.000	0.000	0.000	0.000	Constant
Shear	142.83	8.650	0.605	0.677	0.000	0.000	0.000	0.000	Constant
Shear	151.48	8.650	0.604	0.675	0.000	0.000	0.000	0.000	Constant
Moment	157.70	52.461	0.380	0.520	0.000	0.000	0.000	0.000	Constant
Shear	160.13	8.650	0.603	0.674	0.000	0.000	0.000	0.000	Constant
Shear	168.78	8.650	0.601	0.672	0.000	0.000	0.000	0.000	Constant
Shear	177.43	4.325	0.600	0.671	0.000	0.000	0.000	0.000	Constant
Shear	181.75	43.250	0.600	0.671	0.000	0.000	0.000	0.000	Constant
Moment	210.16	34.023	0.410	0.551	0.000	0.000	0.000	0.000	Constant
Shear	225.00	2.600	0.606	0.677	0.000	0.000	0.000	0.000	Constant
Shear	227.60	5.200	0.605	0.676	0.000	0.000	0.000	0.000	Constant
Shear	232.80	5.200	0.603	0.674	0.000	0.000	0.000	0.000	Constant
Shear	238.00	5.200	0.602	0.673	0.000	0.000	0.000	0.000	Constant
Shear	243.20	5.200	0.601	0.672	0.000	0.000	0.000	0.000	Constant
Moment	244.19	32.813	0.452	0.593	0.000	0.000	0.000	0.000	Constant
Shear	248.40	2.600	0.600	0.671	0.000	0.000	0.000	0.000	Constant
Shear	251.00	26.000	0.600	0.671	0.000	0.000	0.000	0.000	Constant

Steel Rolled Shape Range

Distance (ft)	Length (ft)	Steel Name	Steel Shape Name
0.00	277.00	Structural Steel (1991 to Present)	W 36x231

Deck Concrete Profile

Concrete Name	Distance (ft)	Structural Thickness (in)	Effective Width LRFD (in)	Effective Width Standard (in)	Length (ft)	Modular Ratio	Effective Width LRFD Start (in)	Effective Width Standard Start (in)	Effective Width LRFD End (in)	Effective Width Standard End (in)
Class QC2	0.00	8.5000	72.0000	72.0000	277.00	8.000	72.0000	72.0000	72.0000	72.0000

Deck Reinforcement Profile

Distance (ft)	Length (ft)	Number Of Bars	Bar Size	Rein Steel Name	Vert Distance (in)	Vert Distance Reference Type	Num Bars Std	Num Bars Lrfd	BarSpacing (in)
0.00	277.00	6.00	5	Reinforcing Steel 1984 to Now	2.4380	Bottom of Slab	6.00	6.00	10.8000

0.00	277.00	6.00	4	Reinforcing Steel 1984 to Now	2.7500	Top of Slab	6.00	6.00	12.5000
27.75	46.50	6.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	6.00	6.00	12.5000
30.25	46.50	6.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	6.00	6.00	12.5000
113.75	46.50	6.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	6.00	6.00	12.5000
116.75	46.50	6.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	6.00	6.00	12.5000
200.25	46.50	6.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	6.00	6.00	12.5000
203.25	46.50	6.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	6.00	6.00	12.5000

Shear Connector Profile

Connector Name	Distance (ft)	Length (ft)	Number Per Row	Number Of Spaces	Traverse Spacing (in)
	0.00	277.00			

Haunch Profile

Distance (ft)	Length (ft)	Y1 (in)	Y2 (in)	Y3 (in)	Z1 (in)	Z2 (in)	Z3 (in)	Z4 (in)
0.00	277.00	2.0000						

Lateral Support Range

Support Number	Distance (ft)	Length (ft)
1	0.00	277.00

Spec Selection

Analysis Method Type	Analysis Module	Selection Type	Spec Version Factors
ASD	AASHTO ASD	System Default	
LFD	AASHTO LFD	System Default	
LRFD	AASHTO LRFD	System Default	
LRFR	AASHTO LRFR	System Default	

Girder Member

Name	G13
Description	
Creation Timestamp	
Last Modified Timestamp	
Pedestrain Live Load Force	lb/ft
Member Alternative Name-Current	G13 Alt
Member Alternative Name-Existing	G13 Alt

Member Loads

Settlement

Load Case	Support Number	X Translation Settlement (in)	Y Translation Settlement (in)	Z Rotation Settlement (Radians)
	1			
	2			
	3			
	4			
	5			

Supports

General

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

Elastic

Override Z Rot Spring Const Indicator	Support Number	X Rotation Spring Constant (kip-in/rad)	X Translation Spring Constant (kip/ft)	Y Rotation Spring Constant (kip-in/rad)	Y Translation Spring Constant (kip/ft)	Z Rotation Spring Constant (kip-in/rad)	Z Translation Spring Constant (kip/ft)
False	1						
False	2						
False	3						
False	4						
False	5						

ThreeD General

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

ThreeD Elastic

Support Number	X Rotation Spring Constant (kip-in/rad)	X Translation Spring Constant (kip/ft)	Y Rotation Spring Constant (kip-in/rad)	Y Translation Spring Constant (kip/ft)	Z Rotation Spring Constant (kip-in/rad)	Z Translation Spring Constant (kip/ft)	Override Z Rot Spring Const Indicator
1							False
2							False
3							False
4							False
5							False

Member Alt - Steel Rolled Beam - Schd

Name	G13 Alt	
Description		
Creation Timestamp		
Last Modified Timestamp		
System Of Units	US Customary	
Default Rating Method	LFD	
LFD Single LL Factor Moment	0.857	
LFD Single LL Factor Shear	0.857	
LFD Single LL Factor Shear At Supports	1.000	
LFD Single LL Factor Deflection	0.143	
LFD Multi LL Factor Moment	1.091	
LFD Multi LL Factor Shear	1.091	
LFD Multi LL Factor Shear At Supports	1.000	
LFD Multi LL Factor Deflection	0.536	
Haunch Embedded Flange Indicator	false	
ASD Opr Rebar Factor		
ASD Opr Concrete Factor		
Haunch Type	Flange edges	
Deck Curing Method Type	Moist-cured	
ASD Inv PS Concrete Compr Factor		
ASD Inv PS Concrete Tens Factor:		
ASD Inv PS Concrete Mom Cap Factor		
ASD Opr PS Concrete Tens Factor		
ASD Opr PS Concrete Mom Cap Factor		
Deck Interface Type	Monolithic	
Deck Cohesion Factor	0.400	ksi

Deck Friction Factor	1.400	
Deck Interface Width		in
Default Interface Width To Beam Width Indicator	false	
Service Life	75.00	Years
Time Composite		Days
Time Analysis		Years
Time Continuous		Days
Deck Drying Time		Days
Deck Differential Shrinkage Indicator	false	
Beam Projection Start	9.0000	in
Beam Projection End	9.0000	in
Distribution Factor Input Method Type	Simplified	
Sufficiently connected to act as a unit	false	
Deck K1	0.250	
Deck K2	1.500	ksi
LFD DF for Permit Loads With Routine Traffic Indicator	true	
LRFD DF for Permit Loads With Routine Traffic Indicator	true	
LRFD Distribution Factor Input Method Type	Simplified	
Default Bolt Name		
Default Deck Concrete Name	Class QC2	
Default Deck Reinf Steel Name	Reinforcing Steel 1984 to Now	
Default Structural Steel Name	Structural Steel (1991 to Present)	
Default Weld Name		
Default Stirrup Reinf Steel Name		
Default Beam Reinf Steel Name		
Default Prestress Tendons Name		
Override LFD Factor Name		
Override LRFD Factor Name		
Override LRFR Factor Name		
LRFD Allow Moment Redistribution Indicator	false	
LRFD Allow Plastic Redistribution Indicator	false	
LRFD Use Appendix A6 For Flexural Resistance Indicator	false	
LRFR Allow Moment Redistribution Indicator	false	
LRFR Allow Plastic Redistribution Indicator	false	
LRFR Use Appendix A6 For Flexural Resistance Indicator	false	
LRFR Evaluate Remaining Fatigue Life Indicator	false	
LRFR Consider Flange Lateral Bending Stress Indicator	false	
LFD Allow Moment Redistribution Indicator	false	
LFD Include Bearing Stiffeners In Rating Indicator	true	
LRFD Ignore Long Reinf In Negative Moment Capacity	false	
LRFR Ignore Long Reinf In Negative Moment Capacity	false	
LFD Ignore Long Reinf In Negative Moment Capacity	false	
ASD Ignore Long Reinf In Negative Moment Capacity	false	
LRFD POI Generated At Stiffeners Indicator	false	
LRFR POI Generated At Stiffeners Indicator	false	
LFD Allow Plastic Analysis of Cover Plate Indicator	false	
LFD Ignore Shear Indicator	false	
Simple DL Continuous LL Indicator	false	
ASD Consider Deck Reinf Development Length Indicator	false	
LFD Consider Deck Reinf Development Length Indicator	false	
LRFR Consider Deck Reinf Development Length Indicator	false	
LRFD Consider Deck Reinf Development Length Indicator	false	
LRFR Consider Tension-Field Action in Stiffened Web End Panels	false	
LFD Consider Tension-Field Action in Stiffened Web End Panels	false	
LFD Use LRFD Shear Resistance for Curved Stiffened Interior Web Panels	false	
ASD Consider Tension-Field Action in Stiffened Web End Panels	false	
Cross Section Based Indicator	false	
Beam Projection Start	9.0000	in
Beam Projection End	9.0000	in
Impact Factor Type	Standard - AASHTO	
Impact Factor Adjustment	0.000	
Impact Factor Override	0.0	%
LRFD Constant Impact Factor	33.0	%
LRFD Fatigue Impact Factor	15.0	%
ASD Inv Rebar Factor		
ASD Inv Concrete Factor		
ASD Inv Structural Steel Factor		
ASD Inv Stirrup Factor		
ASD Inv Bearing Stiffener Factor		
ASD Opr Rebar Factor		
ASD Opr Concrete Factor		
ASD Opr Structural Steel Factor		
ASD Opr Stirrup Factor		
ASD Opr Bearing Stiffener Factor		
ASD Opr Timber Allow Stress Percent		
Default Rating Method	LFD	
LRFR Condition Factor	Good or Satisfactory	

LRFR System Factor Override	All Other Girder/Slab Bridges	
LRFD POI Tenth Points Indicator	true	
LRFR POI Tenth Points Indicator	true	
LFD POI Tenth Points Indicator	true	
ASD POI Tenth Points Indicator	true	
LRFD POI Section Change Points Indicator	true	
LRFR POI Section Change Points Indicator	true	
LFD POI Section Change Points Indicator	true	
ASD POI Section Change Points Indicator	true	
LRFD POI User-Defined Points Indicator	true	
LRFR POI User-Defined Points Indicator	true	
LFD POI User-Defined Points Indicator	true	
ASD POI User-Defined Points Indicator	true	
LRFD Distribution Factor Application Method Type	By Point of Interest	
LRFR Distribution Factor Application Method Type	By Point of Interest	
LFD Distribution Factor Input Method Type	By Point of Interest	
LRFR Field Measured Section Properties Indicator	false	
LRFR System Factor Override	false	
Self Load Case Name	true	
Additional Self Load		kip/ft
Additional Self Load Percentage		%
Default Nail Name		

Import Event

LRFD Live Load Distribution Factors

Action Type	Distance (ft)	Length (ft)	Single Lane Factor	Multi Lane Factor	Start Single Lane Factor	End Single Lane Factor	Start Multi Lane Factor	End Multi Lane Factor	Factor Variaton Type
Deflection	0.00	277.000	0.086	0.232	0.000	0.000	0.000	0.000	Constant
Moment	0.00	32.754	0.452	0.593	0.000	0.000	0.000	0.000	Constant
Shear	0.00	2.600	0.606	0.677	0.000	0.000	0.000	0.000	Constant
Shear	2.60	5.200	0.605	0.676	0.000	0.000	0.000	0.000	Constant
Shear	7.80	5.200	0.603	0.674	0.000	0.000	0.000	0.000	Constant
Shear	13.00	5.200	0.602	0.673	0.000	0.000	0.000	0.000	Constant
Shear	18.20	5.200	0.601	0.672	0.000	0.000	0.000	0.000	Constant
Shear	23.40	2.600	0.600	0.671	0.000	0.000	0.000	0.000	Constant
Shear	26.00	26.000	0.600	0.671	0.000	0.000	0.000	0.000	Constant
Moment	32.75	34.091	0.410	0.551	0.000	0.000	0.000	0.000	Constant
Shear	52.00	4.325	0.607	0.678	0.000	0.000	0.000	0.000	Constant
Shear	56.33	8.650	0.605	0.677	0.000	0.000	0.000	0.000	Constant
Shear	64.98	8.650	0.604	0.675	0.000	0.000	0.000	0.000	Constant
Moment	66.85	52.434	0.380	0.520	0.000	0.000	0.000	0.000	Constant
Shear	73.63	8.650	0.603	0.674	0.000	0.000	0.000	0.000	Constant
Shear	82.28	8.650	0.601	0.672	0.000	0.000	0.000	0.000	Constant
Shear	90.93	4.325	0.600	0.671	0.000	0.000	0.000	0.000	Constant
Shear	95.25	43.250	0.600	0.671	0.000	0.000	0.000	0.000	Constant
Moment	119.28	38.412	0.380	0.520	0.000	0.000	0.000	0.000	Constant
Shear	138.50	4.325	0.607	0.678	0.000	0.000	0.000	0.000	Constant
Shear	142.83	8.650	0.605	0.677	0.000	0.000	0.000	0.000	Constant
Shear	151.48	8.650	0.604	0.675	0.000	0.000	0.000	0.000	Constant
Moment	157.69	52.455	0.380	0.520	0.000	0.000	0.000	0.000	Constant
Shear	160.13	8.650	0.603	0.674	0.000	0.000	0.000	0.000	Constant
Shear	168.78	8.650	0.601	0.672	0.000	0.000	0.000	0.000	Constant
Shear	177.43	4.325	0.600	0.671	0.000	0.000	0.000	0.000	Constant
Shear	181.75	43.250	0.600	0.671	0.000	0.000	0.000	0.000	Constant
Moment	210.15	34.058	0.410	0.551	0.000	0.000	0.000	0.000	Constant
Shear	225.00	2.600	0.606	0.677	0.000	0.000	0.000	0.000	Constant
Shear	227.60	5.200	0.605	0.676	0.000	0.000	0.000	0.000	Constant
Shear	232.80	5.200	0.603	0.674	0.000	0.000	0.000	0.000	Constant
Shear	238.00	5.200	0.602	0.673	0.000	0.000	0.000	0.000	Constant
Shear	243.20	5.200	0.601	0.672	0.000	0.000	0.000	0.000	Constant
Moment	244.20	32.797	0.452	0.593	0.000	0.000	0.000	0.000	Constant
Shear	248.40	2.600	0.600	0.671	0.000	0.000	0.000	0.000	Constant
Shear	251.00	26.000	0.600	0.671	0.000	0.000	0.000	0.000	Constant

Steel Rolled Shape Range

Distance (ft)	Length (ft)	Steel Name	Steel Shape Name
0.00	277.00	Structural Steel (1991 to Present)	W 36x231

Deck Concrete Profile

Concrete Name	Distance (ft)	Structural Thickness (in)	Effective Width LRFD (in)	Effective Width Standard (in)	Length (ft)	Modular Ratio	Effective Width LRFD Start (in)	Effective Width Standard Start (in)	Effective Width LRFD End (in)	Effective Width Standard End (in)
Class QC2	0.00	8.5000	72.0000	72.0000	277.00	8.000	72.0000	72.0000	72.0000	72.0000

Deck Reinforcement Profile

Distance (ft)	Length (ft)	Number Of Bars	Bar Size	Rein Steel Name	Vert Distance (in)	Vert Distance Reference Type	Num Bars Std	Num Bars Lrfd	BarSpacing (in)
0.00	277.00	6.00	5	Reinforcing Steel 1984 to Now	2.4380	Bottom of Slab	6.00	6.00	10.8000
0.00	277.00	6.00	4	Reinforcing Steel 1984 to Now	2.7500	Top of Slab	6.00	6.00	12.5000
27.75	46.50	6.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	6.00	6.00	12.5000
30.25	46.50	6.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	6.00	6.00	12.5000
113.75	46.50	6.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	6.00	6.00	12.5000
116.75	46.50	6.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	6.00	6.00	12.5000
200.25	46.50	6.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	6.00	6.00	12.5000
203.25	46.50	6.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	6.00	6.00	12.5000

Shear Connector Profile

Connector Name	Distance (ft)	Length (ft)	Number Per Row	Number Of Spaces	Traverse Spacing (in)
	0.00	277.00			

Haunch Profile

Distance (ft)	Length (ft)	Y1 (in)	Y2 (in)	Y3 (in)	Z1 (in)	Z2 (in)	Z3 (in)	Z4 (in)
0.00	277.00	2.0000						

Lateral Support Range

Support Number	Distance (ft)	Length (ft)
1	0.00	277.00

Spec Selection

Analysis Method Type	Analysis Module	Selection Type	Spec Version Factors
ASD	AASHTO ASD	System Default	
LFD	AASHTO LFD	System Default	
LRFD	AASHTO LRFD	System Default	
LRFR	AASHTO LRFR	System Default	

Girder Member

Name	G14
Description	
Creation Timestamp	
Last Modified Timestamp	
Pedestrain Live Load Force	lb/ft
Member Alternative Name-Current	G14 Alt
Member Alternative Name-Existing	G14 Alt

Member Loads

Concentrated Member Loads

Distance (ft)	Description	Force X (kip)	Force Y (kip)	Load Case Name	Moment Z (kip-ft)	Percent of Load Flexure (%)	Percent of Load Shear (%)
0.46	Abut Pil		6.11	DC2		100.00	100.00
276.54	Abut Pil		6.11	DC2		100.00	100.00
52.00	Int Pil		3.26	DC2		100.00	100.00
109.67	Int Pil		3.26	DC2		100.00	100.00
167.33	Int Pil		3.26	DC2		100.00	100.00
225.00	Int Pil		3.26	DC2		100.00	100.00
26.83	Light Post		1.69	DC2		100.00	100.00
79.33	Light Post		1.69	DC2		100.00	100.00
138.50	Light Post		1.69	DC2		100.00	100.00
197.67	Light Post		1.69	DC2		100.00	100.00
250.17	Light Post		1.69	DC2		100.00	100.00

Settlement

Load Case	Support Number	X Translation Settlement (in)	Y Translation Settlement (in)	Z Rotation Settlement (Radians)
	1			
	2			
	3			
	4			
	5			

Supports

General

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

Elastic

Override Z Rot Spring Const Indicator	Support Number	X Rotation Spring Constant (kip-in/rad)	X Translation Spring Constant (kip/ft)	Y Rotation Spring Constant (kip-in/rad)	Y Translation Spring Constant (kip/ft)	Z Rotation Spring Constant (kip-in/rad)	Z Translation Spring Constant (kip/ft)
False	1						
False	2						
False	3						
False	4						
False	5						

ThreeD General

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

3	Pinned	Free	Free	Free	Fixed	Free	Free
4	Roller	Free	Free	Free	Fixed	Free	Free
5	Roller	Free	Free	Free	Fixed	Free	Free

ThreeD Elastic

Support Number	X Rotation Spring Constant (kip-in/rad)	X Translation Spring Constant (kip/ft)	Y Rotation Spring Constant (kip-in/rad)	Y Translation Spring Constant (kip/ft)	Z Rotation Spring Constant (kip-in/rad)	Z Translation Spring Constant (kip/ft)	Override Z Rot Spring Const Indicator
1							False
2							False
3							False
4							False
5							False

Member Alt - Steel Rolled Beam - Schd

Name	G14 Alt	
Description		
Creation Timestamp		
Last Modified Timestamp		
System Of Units	US Customary	
Default Rating Method	LFD	
LFD Single LL Factor Moment	1.091	
LFD Single LL Factor Shear	1.091	
LFD Single LL Factor Shear At Supports	0.778	
LFD Single LL Factor Deflection	0.143	
LFD Multi LL Factor Moment	1.091	
LFD Multi LL Factor Shear	1.091	
LFD Multi LL Factor Shear At Supports	0.778	
LFD Multi LL Factor Deflection	0.536	
Haunch Embedded Flange Indicator	false	
ASD Opr Rebar Factor		
ASD Opr Concrete Factor		
Haunch Type	Flange edges	
Deck Curing Method Type	Moist-cured	
ASD Inv PS Concrete Compr Factor		
ASD Inv PS Concrete Tens Factor:		
ASD Inv PS Concrete Mom Cap Factor		
ASD Opr PS Concrete Tens Factor		
ASD Opr PS Concrete Mom Cap Factor		
Deck Interface Type	Monolithic	
Deck Cohesion Factor	0.400	ksi
Deck Friction Factor	1.400	
Deck Interface Width		in
Default Interface Width To Beam Width Indicator	false	
Service Life	75.00	Years
Time Composite		Days
Time Analysis		Years
Time Continuous		Days
Deck Drying Time		Days
Deck Differential Shrinkage Indicator	false	
Beam Projection Start	9.0000	in
Beam Projection End	9.0000	in
Distribution Factor Input Method Type	Simplified	
Sufficiently connected to act as a unit	false	
Deck K1	0.250	
Deck K2	1.500	ksi
LFD DF for Permit Loads With Routine Traffic Indicator	false	
LRFD DF for Permit Loads With Routine Traffic Indicator	true	
LRFD Distribution Factor Input Method Type	Simplified	
Default Bolt Name		
Default Deck Concrete Name	Class QC2	
Default Deck Reinf Steel Name	Reinforcing Steel 1984 to Now	
Default Structural Steel Name	Structural Steel (1991 to Present)	
Default Weld Name		
Default Stirrup Reinf Steel Name		
Default Beam Reinf Steel Name		
Default Prestress Tendons Name		
Override LFD Factor Name		
Override LRFD Factor Name		
Override LRFR Factor Name		
LRFD Allow Moment Redistribution Indicator	false	
LRFD Allow Plastic Redistribution Indicator	false	

LRFD Use Appendix A6 For Flexural Resistance Indicator	false	
LRFR Allow Moment Redistribution Indicator	false	
LRFR Allow Plastic Redistribution Indicator	false	
LRFR Use Appendix A6 For Flexural Resistance Indicator	false	
LRFR Evaluate Remaining Fatigue Life Indicator	false	
LRFR Consider Flange Lateral Bending Stress Indicator	false	
LFD Allow Moment Redistribution Indicator	false	
LFD Include Bearing Stiffeners In Rating Indicator	true	
LRFD Ignore Long Reinf In Negative Moment Capacity	false	
LRFR Ignore Long Reinf In Negative Moment Capacity	false	
LFD Ignore Long Reinf In Negative Moment Capacity	false	
ASD Ignore Long Reinf In Negative Moment Capacity	false	
LRFD POI Generated At Stiffeners Indicator	false	
LRFR POI Generated At Stiffeners Indicator	false	
LFD Allow Plastic Analysis of Cover Plate Indicator	false	
LFD Ignore Shear Indicator	false	
Simple DL Continuous LL Indicator	false	
ASD Consider Deck Reinf Development Length Indicator	false	
LFD Consider Deck Reinf Development Length Indicator	false	
LRFR Consider Deck Reinf Development Length Indicator	false	
LRFD Consider Deck Reinf Development Length Indicator	false	
LRFR Consider Tension-Field Action in Stiffened Web End Panels	false	
LFD Consider Tension-Field Action in Stiffened Web End Panels	false	
LFD Use LRFD Shear Resistance for Curved Stiffened Interior Web Panels	false	
ASD Consider Tension-Field Action in Stiffened Web End Panels	false	
Cross Section Based Indicator	false	
Beam Projection Start	9.0000	in
Beam Projection End	9.0000	in
Impact Factor Type	Standard - AASHTO	
Impact Factor Adjustment	0.000	
Impact Factor Override	0.0	%
LRFD Constant Impact Factor	33.0	%
LRFD Fatigue Impact Factor	15.0	%
ASD Inv Rebar Factor		
ASD Inv Concrete Factor		
ASD Inv Structural Steel Factor		
ASD Inv Stirrup Factor		
ASD Inv Bearing Stiffener Factor		
ASD Opr Rebar Factor		
ASD Opr Concrete Factor		
ASD Opr Structural Steel Factor		
ASD Opr Stirrup Factor		
ASD Opr Bearing Stiffener Factor		
ASD Opr Timber Allow Stress Percent		
Default Rating Method	LFD	
LRFR Condition Factor	Good or Satisfactory	
LRFR System Factor Override	All Other Girder/Slab Bridges	
LRFD POI Tenth Points Indicator	true	
LRFR POI Tenth Points Indicator	true	
LFD POI Tenth Points Indicator	true	
ASD POI Tenth Points Indicator	true	
LRFD POI Section Change Points Indicator	true	
LRFR POI Section Change Points Indicator	true	
LFD POI Section Change Points Indicator	true	
ASD POI Section Change Points Indicator	true	
LRFD POI User-Defined Points Indicator	true	
LRFR POI User-Defined Points Indicator	true	
LFD POI User-Defined Points Indicator	true	
ASD POI User-Defined Points Indicator	true	
LRFD Distribution Factor Application Method Type	By Point of Interest	
LRFR Distribution Factor Application Method Type	By Point of Interest	
LFD Distribution Factor Input Method Type	By Point of Interest	
LRFR Field Measured Section Properties Indicator	false	
LRFR System Factor Override	false	
Self Load Case Name	true	
Additional Self Load		kip/ft
Additional Self Load Percentage		%
Default Nail Name		

Import Event

LRFD Live Load Distribution Factors

Action Type	Distance (ft)	Length (ft)	Single Lane Factor	Multi Lane Factor	Start Single Lane Factor	End Single Lane Factor	Start Multi Lane Factor	End Multi Lane Factor	Factor Variaton Type

Deflection	0.00	277.000	0.086	0.232	0.000	0.000	0.000	0.000	Constant
Moment	0.00	32.733	0.467	0.500	0.000	0.000	0.000	0.000	Constant
Shear	0.00	2.600	0.471	0.459	0.000	0.000	0.000	0.000	Constant
Shear	2.60	5.200	0.470	0.458	0.000	0.000	0.000	0.000	Constant
Shear	7.80	5.200	0.469	0.457	0.000	0.000	0.000	0.000	Constant
Shear	13.00	5.200	0.468	0.456	0.000	0.000	0.000	0.000	Constant
Shear	18.20	5.200	0.468	0.455	0.000	0.000	0.000	0.000	Constant
Shear	23.40	2.600	0.467	0.455	0.000	0.000	0.000	0.000	Constant
Shear	26.00	26.000	0.467	0.455	0.000	0.000	0.000	0.000	Constant
Moment	32.73	34.129	0.467	0.464	0.000	0.000	0.000	0.000	Constant
Shear	52.00	4.325	0.472	0.460	0.000	0.000	0.000	0.000	Constant
Shear	56.33	8.650	0.471	0.459	0.000	0.000	0.000	0.000	Constant
Shear	64.98	8.650	0.470	0.458	0.000	0.000	0.000	0.000	Constant
Moment	66.86	52.448	0.467	0.455	0.000	0.000	0.000	0.000	Constant
Shear	73.63	8.650	0.469	0.457	0.000	0.000	0.000	0.000	Constant
Shear	82.28	8.650	0.468	0.456	0.000	0.000	0.000	0.000	Constant
Shear	90.93	4.325	0.467	0.455	0.000	0.000	0.000	0.000	Constant
Shear	95.25	43.250	0.467	0.455	0.000	0.000	0.000	0.000	Constant
Moment	119.31	38.370	0.467	0.455	0.000	0.000	0.000	0.000	Constant
Shear	138.50	4.325	0.472	0.460	0.000	0.000	0.000	0.000	Constant
Shear	142.83	8.650	0.471	0.459	0.000	0.000	0.000	0.000	Constant
Shear	151.48	8.650	0.470	0.458	0.000	0.000	0.000	0.000	Constant
Moment	157.68	52.452	0.467	0.455	0.000	0.000	0.000	0.000	Constant
Shear	160.13	8.650	0.469	0.457	0.000	0.000	0.000	0.000	Constant
Shear	168.78	8.650	0.468	0.456	0.000	0.000	0.000	0.000	Constant
Shear	177.43	4.325	0.467	0.455	0.000	0.000	0.000	0.000	Constant
Shear	181.75	43.250	0.467	0.455	0.000	0.000	0.000	0.000	Constant
Moment	210.13	34.088	0.467	0.464	0.000	0.000	0.000	0.000	Constant
Shear	225.00	2.600	0.471	0.459	0.000	0.000	0.000	0.000	Constant
Shear	227.60	5.200	0.470	0.458	0.000	0.000	0.000	0.000	Constant
Shear	232.80	5.200	0.469	0.457	0.000	0.000	0.000	0.000	Constant
Shear	238.00	5.200	0.468	0.456	0.000	0.000	0.000	0.000	Constant
Shear	243.20	5.200	0.468	0.455	0.000	0.000	0.000	0.000	Constant
Moment	244.22	32.781	0.467	0.500	0.000	0.000	0.000	0.000	Constant
Shear	248.40	2.600	0.467	0.455	0.000	0.000	0.000	0.000	Constant
Shear	251.00	26.000	0.467	0.455	0.000	0.000	0.000	0.000	Constant

Steel Rolled Shape Range

Distance (ft)	Length (ft)	Steel Name	Steel Shape Name
0.00	277.00	Structural Steel (1991 to Present)	W 36x231

Deck Concrete Profile

Concrete Name	Distance (ft)	Structural Thickness (in)	Effective Width LRFD (in)	Effective Width Standard (in)	Length (ft)	Modular Ratio	Effective Width LRFD Start (in)	Effective Width Standard Start (in)	Effective Width LRFD End (in)	Effective Width Standard End (in)
Class QC2	0.00	8.5000	63.9960	63.9960	277.00	8.000	63.9960	63.9960	63.9960	63.9960

Deck Reinforcement Profile

Distance (ft)	Length (ft)	Number Of Bars	Bar Size	Rein Steel Name	Vert Distance (in)	Vert Distance Reference Type	Num Bars Std	Num Bars Lrfd	BarSpacing (in)
0.00	277.00	6.00	5	Reinforcing Steel 1984 to Now	2.4380	Bottom of Slab	6.00	6.00	9.4000
0.00	277.00	6.00	4	Reinforcing Steel 1984 to Now	2.7500	Top of Slab	6.00	6.00	12.5000
27.75	46.50	5.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	5.00	5.00	12.5000
30.25	46.50	5.00	5		2.8130	Top of Slab	5.00	5.00	12.5000

				Reinforcing Steel 1984 to Now					
113.75	46.50	5.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	5.00	5.00	12.5000
116.75	46.50	5.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	5.00	5.00	12.5000
200.25	46.50	5.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	5.00	5.00	12.5000
203.25	46.50	5.00	5	Reinforcing Steel 1984 to Now	2.8130	Top of Slab	5.00	5.00	12.5000

Shear Connector Profile

Connector Name	Distance (ft)	Length (ft)	Number Per Row	Number Of Spaces	Traverse Spacing (in)
	0.00	277.00			

Haunch Profile

Distance (ft)	Length (ft)	Y1 (in)	Y2 (in)	Y3 (in)	Z1 (in)	Z2 (in)	Z3 (in)	Z4 (in)
0.00	277.00	2.0000	-1.2600					

Lateral Support Range

Support Number	Distance (ft)	Length (ft)
1	0.00	277.00

Spec Selection

Analysis Method Type	Analysis Module	Selection Type	Spec Version Factors
ASD	AASHTO ASD	System Default	
LFD	AASHTO LFD	System Default	
LRFD	AASHTO LRFD	System Default	
LRFR	AASHTO LRFR	System Default	

Bridge Alt

Name	Bridge Alt	
Description		
Creation Timestamp		
Last Modified Timestamp		
Reference Line Length		ft
Distance		ft
Offset		ft
Elevation		ft
Bearing	0.00	Degrees
Station		ft
Impact Factor Type	Standard - AASHTO	
Longitudinal Force Load Distribution Type	Fixed & Expansion - Simplified	
Horizontal Curvature Indicator	false	
Bearing Location Type	Start	
Curved Bridge Alignment Type	Curved	
Curve Start Tangent Length		ft
Curve Length		ft
Curve Radius		ft
Curve Direction Type	Left	
Curve End Tangent Length		ft

Superstructure

Name	Superstructure Alt	
Description		
Distance		ft
Last Modified TimeStamp		
Station		ft
Angle	0.00	Degrees
Offset		ft

Vehicle Path Longitudinal Increment	4.000	ft
Existing Super Structure Alternative Name	Alt 1	
Current Super Structure Alternative Name	Alt 1	
Last Creation TimeStamp		

Superstructure Loading Path

NSG Vehicle Path Type	Centered	
NSG Vehicle Center Line Location		ft
Adjacent Vehicle Path Type	None	
Adjacent Vehicle Center Line Location		ft

Superstructure Alternative

Name	Alt 1
Description	
Creation Timestamp	
Last Modified Timestamp	
Superstructure Definition Name	Superstructure Diaph

Diaphragm Def

Name	1958 IntDiaph	
Diaphragm Type	Type 1	
Diaphragm Material Type	Steel	
Thickness		in
Height		in
Concrete Name	Class QC2	

Diaphgram Connection

Connection	Support Type	Y (in)	Measured From
A	Pinned	2.00	Top of Web
B	Pinned	2.00	Top of Web
C	Pinned	2.00	Bottom of Web
D	Pinned	2.00	Bottom of Web

Diaphragm Def

Name	1958 EndDiaph	
Diaphragm Type	Type 3	
Diaphragm Material Type	Steel	
Thickness		in
Height		in
Concrete Name	Class QC2	

Diaphgram Connection

Connection	Support Type	Y (in)	Measured From
A	Pinned	0.00	Top of Web
B	Pinned	0.00	Top of Web
C	Pinned	2.00	Bottom of Web
D	Pinned	2.00	Bottom of Web
E	Pinned		

Diaphragm Def

Name	2022 EndDiaph	
Diaphragm Type	Type 4	
Diaphragm Material Type	Steel	
Thickness		in
Height		in
Concrete Name	Class QC2	

Diaphragm Location

Member	Shape	Section Orientation	Section Location Type	Material
AB	MC 18x42.7	Vertical	Left	Structural Steel (1991 to Present)

Diaphgram Connection

Connection	Support Type	Y (in)	Measured From
A	Pinned	18.00	Top of Web
B	Pinned	18.00	Top of Web

Diaphragm Def

Name	2022 IntDiaph	
Diaphragm Type	Type 1	
Diaphragm Material Type	Steel	
Thickness		in
Height		in
Concrete Name	Class QC2	

Diaphgram Connection

Connection	Support Type	Y (in)	Measured From
A	Pinned	2.00	Top of Web
B	Pinned	2.00	Top of Web
C	Pinned	2.00	Bottom of Web
D	Pinned	2.00	Bottom of Web