BRIDGE Briefings

Load Rating Requirements and Forms

Texas Department of Transportation

3/26/2026

Table of Contents

What is a Load Rating?

Definition of a load rating

- It is a measure of the bridge live load capacity
  - Two common Categories defined by AASHTO Manual for Bridge Evaluation
    - Inventory Rating
    - Operating Rating

The Golden Gate Bridge Overloaded with People

Ting, E. (2019, May 25). *32 years ago, 300,000 people flattened the Golden Gate Bridge. SFGate*. https://www.sfgate.com/local-donotuse/article/Golden-Gate-bridge-walk-1987-anniversary-disaster-13896571.php#photo-17549621/

What is an Inventory Rating?

- A live load that can safely utilize the bridge
- May be placed in multiple lanes
- Can safely use the bridge for an indefinite period without impacting the life of the structure

A Tonka Toy on a Flatbed Truck

The_Other_Guy. (2021, October 24. *Tractor Trailer carrying a toy truck* [Online Forum Post]. Reddit. https://www.reddit.com/r/funny/comments/qesmfm/tractor_trail er_carrying_a_toy_truck/

What is an Operating Rating?

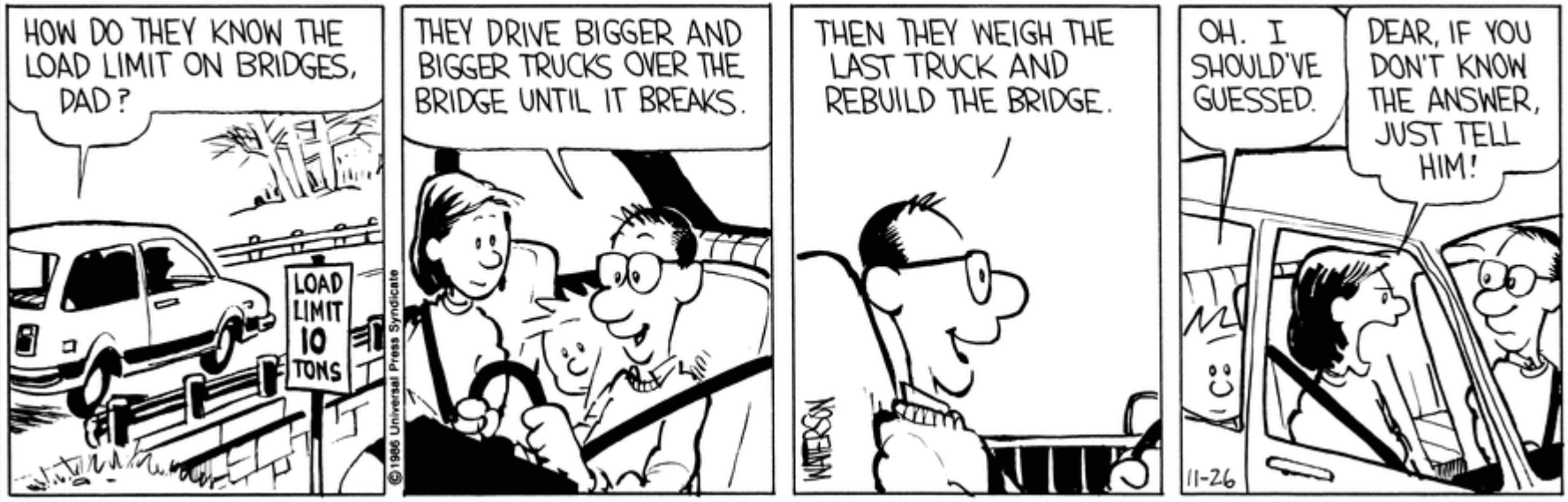
- A maximum live load that can be placed on the bridge safely
- May also include the same load in multiple lanes
- Indefinite use would reduce the life of the bridge

Oversized Load on Multi-Axle Trailer

Klco, A. (2020, September 15). *Pros and Cons of Driving a Wide Load Truck.* Drive My Way. https://www.drivemyway.com/blog/pros-and-cons-of-driving-a-wide-load-truck/

How do we Load Rate a Bridge?

This is not how we load rate

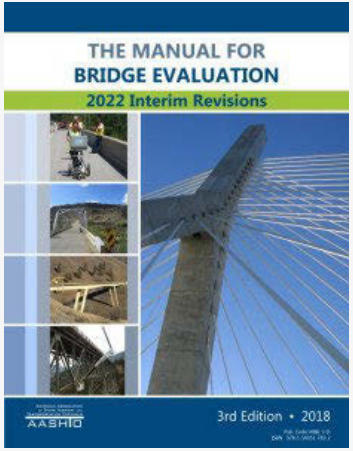


Calvin and Hobbes – "Bridge Capacity"

Watterson, B. (Artist) (1986, November 26). *Bridge Capacity*. Calvin and Hobbes Collection. Retrieved from https://www.gocomics.com/calvinandhobbes/1986/11/26

Requirements for how we Load Rate a bridge

- TxDOT Load Rating requirements for new bridges:
  - Bridge Design Manual – LRFD (BDM – LRFD), issued September 2024
  - Chapter 5, Section 7 outlines requirements
    - Load Rate in Accordance with the American Association of State Highway and Transportation Officials (AASHTO) Manual for Bridge Evaluation (MBE) with current interims



MBE

Design Truck Specifications for Load Rating

- Live Load is per AASHTO LRFD Bridge Design Specifications, 9th Edition (2020)
  - Use HL-93 per Section 3.6.1.2 unless a special vehicle is specified or warranted
  - Use Fatigue Loading per Section 3.6.1.4

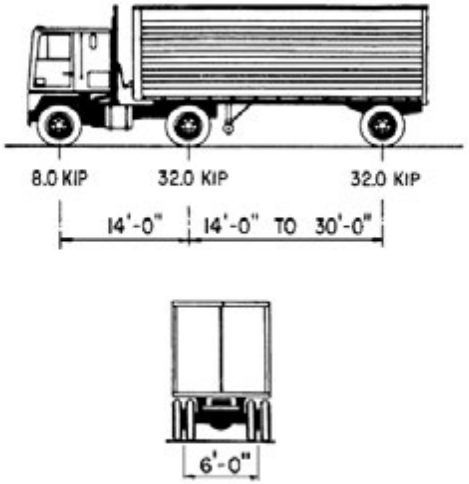


Figure 3.6.1.2.2-1—Characteristics of the Design Truck

Design Truck Diagram

What factors do we apply to the design truck?

- Use the BDM – LRFD Table 5-1 in lieu of MBE Table 6A.4.2.2-1

Table 5-1: TxDOT Limit States and Load Factors for Load Rating New Designs (Replaces MBE Table 6A.4.2.2-1)

Bridge Type	Limit State	Dead Load (1)		Design Live Load	
				Inventory	Operating
		γDC	γDW	γLL	γLL
Prestressed Concrete	Strength I	1.25	1.50	1.75	1.35
	Service III	1.00	1.00	0.80	N/A
Structural Steel	Strength I	1.25	1.50	1.75	1.35
	Service II	1.00	1.00	1.30	1.00
	Fatigue (2)	0.00	0.00	0.80	N/A
Reinforced Concrete (3)	Strength I	1.25	1.50	1.75	1.35
Post Tensioned Concrete (4)	Strength I	1.25 max, 0.9 min	1.50 max, 0.65 min	1.75	1.35
	Service I (5)	1.00	1.00	1.00	N/A
	Service III	1.00	1.00	0.80	N/A

Table 5-1: Load Factors

What elements are required to be load rated?

Structure Type	Service Flexure	Ultimate Flexure	Ultimate Shear	Fatigue
Prestressed Beams & Girders	✓	✓	✓	
Steel Girders	✓	✓	✓	
Fracture Critical Steel Girders	✓	✓	✓	✓
Post-Tensioned Concrete Superstructure	✓	✓	✓	
Reinforced Concrete Superstructure		✓	✓	

Does it need to be load rated?

- Additional elements that may need load ratings but aren't required unless directed by TxDOT or where it may control:
  - Reinforced Concrete Bent Caps
  - Reinforced Concrete Inverted Tee Bent Caps
  - Post-Tensioned Bent Caps
  - Steel Bent Caps

Contact Bridge Division for guidance on unique structures or elements not addressed in the BDM - LRFD

Documentation of Load Rating – Form 2731 for New Bridges

Forms for Documenting Load Ratings

Existing Bridges – Form 2495


BRIDGE LOAD RATING STATEMENT

Figure 1 - Form 2495

New Bridges – Form 2731


New Bridge Load Rating Summary for Design Load

Figure 2 - Form 2731

[Click this text to access Form 2731 on the TxDOT Bridge Publications website]

An Important Note Regarding Form 2731

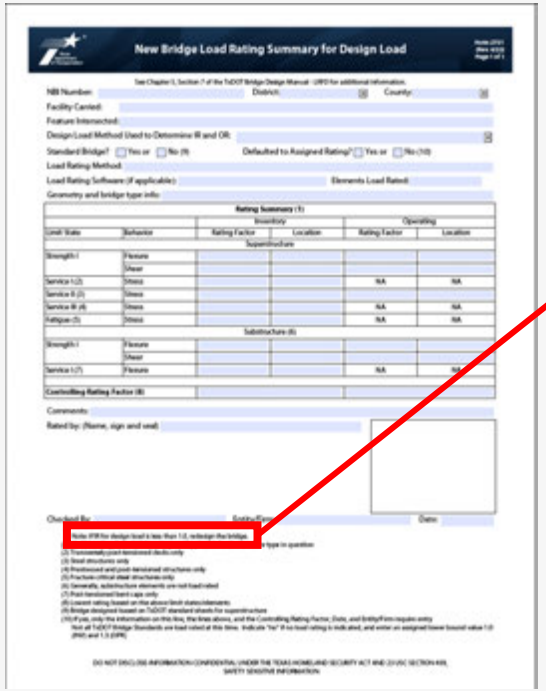

New Bridge Load Rating Summary for Design Load

Figure 2 - Form 2731

The bridge shall be redesigned if the Inventory Rating (IR) is less than one.

Note: If IR for design load is less than 1.0, redesign the bridge.

Load Rating – Form 2731 – Lines 1 through 3

Form 2731

Texas Department of Transportation

New Bridge Load Rating Summary for Design Load

Form 2731
(Rev. 6/22)
Page 1 of 1

See Chapter 5, Section 7 of the TxDOT Bridge Design Manual - LRFD for additional information.

NBI Number: 14-011-0-AA01-06-502 District: Austin County: Bastrop

Facility Carried: Old McDade Road

Feature Intersected: Big Sandy Creek

Design Load Method Used to Determine IR and OR: LRFR as outlined in Chapter 6, Part A of the MBE

Standard Bridge? ☐ Yes or ☒ No (9) Defaulted to Assigned Rating? ☐ Yes or ☒ No (10)

Load Rating Method: HL-93

Load Rating Software (if applicable): Bridgelink PGSuper Version 7.0.2.0 Elements Load Rated: Superstructure

Geometry and bridge type info: 3 Span Pre-Stressed Concrete I-Girder Bridge (Tx40) Unit (NW-SE) - Spans: 40' - 95' - 40'

The top of form is the identifying information for the bridge, including the name, district, county and facility carried and feature intersected.

Load Rating – Form 2731 – Line 4

Form 2731

New Bridge Load Rating Summary for Design Load

Form 2731
(Rev. 6/22)
Page 1 of 1

See Chapter 5, Section 7 of the TxDOT Bridge Design Manual - LRFD for additional information.

NBI Number: 14-011-0-AA01-06-502 District: Austin County: Bastrop

Facility Carried: Old McDade Road

Feature Intersected: Big Sandy Creek

Design Load Method Used to Determine IR and OR: LRFR as outlined in Chapter 6, Part A of the MBE

Standard Bridge? ☐ Yes or ☒ No (9) Defaulted to Assigned Rating? ☐ Yes or ☒ No (10)

Load Rating Method: HL-93

Load Rating Software (if applicable): Bridgelink PGSuper Version 7.0.2.0 Elements Load Rated: Superstructure

Geometry and bridge type info: 3 Span Pre-Stressed Concrete I-Girder Bridge (Tx40) Unit (NW-SE) - Spans: 40' - 95' - 40'

- On line four, indicate the design load method:
  - Only one option is allowed for new bridges – Load and Resistance Factor Rating (LRFR).
  - Load Factor and Allowable Stress ratings are not allowed.

Load Rating – Form 2731 – Line 5

Form 2731

New Bridge Load Rating Summary for Design Load

Texas Department of Transportation

Form 2731
(Rev. 6/22)
Page 1 of 1

See Chapter 5, Section 7 of the TxDOT Bridge Design Manual - LRFD for additional information.

NBI Number: 14-011-0-AA01-06-502 District: Austin County: Bastrop

Facility Carried: Old McDade Road

Feature Intersected: Big Sandy Creek

Design Load Method Used to Determine IR and OR: LRFR as outlined in Chapter 6, Part A of the MBE

Standard Bridge? ☒ Yes or ☐ No (9) Defaulted to Assigned Rating? ☒ Yes or ☐ No (10)

Load Rating Method:

Load Rating Software (if applicable): Elements Load Rated:

Geometry and bridge type info:

If this is a Standard Bridge, check Yes for both questions on line 5 and leave the next three lines blank.

Load Rating – Form 2731 – Line 5 Continued

Form 2731

New Bridge Load Rating Summary for Design Load

Texas Department of Transportation

Form 2731
(Rev. 6/22)
Page 1 of 1

See Chapter 5, Section 7 of the TxDOT Bridge Design Manual - LRFD for additional information.

NBI Number: 14-011-0-AA01-06-502 District: Austin County: Bastrop

Facility Carried: Old McDade Road

Feature Intersected: Big Sandy Creek

Design Load Method Used to Determine IR and OR: LRFR as outlined in Chapter 6, Part A of the MBE

Standard Bridge? ☐ Yes or ☒ No (9) Defaulted to Assigned Rating? ☐ Yes or ☒ No (10)

Load Rating Method: HL-93

Load Rating Software (if applicable): Bridgelink PGSuper Version 7.0.2.0 Elements Load Rated: Superstructure

Geometry and bridge type info: 3 Span Pre-Stressed Concrete I-Girder Bridge (Tx40) Unit (NW-SE) - Spans: 40' - 95' - 40'

If not a Standard Bridge, check No for both questions on line 5 and proceed to lines 6 through 8.

Load Rating – Form 2731 – Line 6

Form 2731

New Bridge Load Rating Summary for Design Load

Form 2731
(Rev. 6/22)
Page 1 of 1

See Chapter 5, Section 7 of the TxDOT Bridge Design Manual - LRFD for additional information.

NBI Number: 14-011-0-AA01-06-502 District: Austin County: Bastrop

Facility Carried: Old McDade Road

Feature Intersected: Big Sandy Creek

Design Load Method Used to Determine IR and OR: LRFR as outlined in Chapter 6, Part A of the MBE

Standard Bridge? ☐ Yes or ☒ No (9) Defaulted to Assigned Rating? ☐ Yes or ☒ No (10)

Load Rating Method: HL-93

Load Rating Software (if applicable): Bridgelink PGSuper Version 7.0.2.0 Elements Load Rated: Superstructure

Geometry and bridge type info: 3 Span Pre-Stressed Concrete I-Girder Bridge (Tx40) Unit (NW-SE) - Spans: 40' - 95' - 40'

- On line 6, indicate the load rating method:
  - Typically, the only required load is the HL-93.
  - If Legal Loads (EV/SHV) or Permit Vehicle is required, include which vehicles on this line.

Load Rating – Form 2731 – Line 7 & 8

Form 2731

New Bridge Load Rating Summary for Design Load

Texas Department of Transportation

Form 2731
(Rev. 6/22)
Page 1 of 1

See Chapter 5, Section 7 of the TxDOT Bridge Design Manual - LRFD for additional information.

NBI Number: 14-011-0-AA01-06-502 District: Austin County: Bastrop

Facility Carried: Old McDade Road

Feature Intersected: Big Sandy Creek

Design Load Method Used to Determine IR and OR: LRFR as outlined in Chapter 6, Part A of the MBE

Standard Bridge? ☐ Yes or ☒ No (9) Defaulted to Assigned Rating? ☐ Yes or ☒ No (10)

Load Rating Method: HL-93

Load Rating Software (if applicable): Bridgelink PGSuper Version 7.0.2.0 Elements Load Rated: Superstructure

Geometry and bridge type info: 3 Span Pre-Stressed Concrete I-Girder Bridge (Tx40) Unit (NW-SE) - Spans: 40' - 95' - 40'

- On line 7, list the software used to load rate and the version number:
  - List all elements load rated.
- One line 8, describe the bridge geometry and type.

Load Rating – Form 2731 – Rating Summary Part 1

Form 2731

Controlling Factor for Limit State and Behavior, as applicable

Describe Corresponding Location on bridge for Each Factor

Required for all structures

Rating Summary (1)

		Inventory		Operating	
Limit State	Behavior	Rating Factor	Location	Rating Factor	Location
		Superstructure			
Strength I	Flexure	1.48	S1&3, G1&4, 0.5L	1.91	S1&3, G1&4, 0.5L
	Shear	1.59	S2, G2&3, SZB	2.18	S2, G2&3, SZB
Service I (2)	Stress	N/A	N/A	NA	NA
Service II (3)	Stress	N/A	N/A	N/A	N/A
Service III (4)	Stress	1.01	S2, G2&3, 0.5L	NA	NA
Fatigue (5)	Stress	N/A	N/A	NA	NA
		Substructure (6)			
Strength I	Flexure	N/A	N/A	N/A	N/A
	Shear	N/A	N/A	N/A	N/A
Service I (7)	Flexure	N/A	N/A	NA	NA
Controlling Rating Factor (8)		1.01		1.91	

Load Rating – Form 2731 – Rating Summary Part 2

Form 2731

Service I Only applies to decks that are transversely post-tensioned

Rating Summary (1)					
		Inventory		Operating	
Limit State	Behavior	Rating Factor	Location	Rating Factor	Location
Superstructure					
Strength I	Flexure	1.48	S1&3, G1&4, 0.5L	1.91	S1&3, G1&4, 0.5L
	Shear	1.59	S2, G2&3, SZB	2.18	S2, G2&3, SZB
Service I (2)	Stress	N/A	N/A	NA	NA
Service II (3)	Stress	N/A	N/A	N/A	N/A
Service III (4)	Stress	1.01	S2, G2&3, 0.5L	NA	NA
Fatigue (5)	Stress	N/A	N/A	NA	NA
Substructure (6)					
Strength I	Flexure	N/A	N/A	N/A	N/A
	Shear	N/A	N/A	N/A	N/A
Service I (7)	Flexure	N/A	N/A	NA	NA
Controlling Rating Factor (8)		1.01		1.91	

Service II applies to steel structures only

Load Rating – Form 2731 – Rating Summary Part 3

Form 2731

Service III applies to any prestressed or post-tensioned structure types

Fatigue is only for Fracture Critical Steel Structures

Rating Summary (1)

		Inventory		Operating	
Limit State	Behavior	Rating Factor	Location	Rating Factor	Location
Superstructure					
Strength I	Flexure	1.48	S1&3, G1&4, 0.5L	1.91	S1&3, G1&4, 0.5L
	Shear	1.59	S2, G2&3, SZB	2.18	S2, G2&3, SZB
Service I (2)	Stress	N/A	N/A	NA	NA
Service II (3)	Stress	N/A	N/A	N/A	N/A
Service III (4)	Stress	1.01	S2, G2&3, 0.5L	NA	NA
Fatigue (5)	Stress	N/A	N/A	NA	NA
Substructure (6)					
Strength I	Flexure	N/A	N/A	N/A	N/A
	Shear	N/A	N/A	N/A	N/A
Service I (7)	Flexure	N/A	N/A	NA	NA
Controlling Rating Factor (8)		1.01		1.91	

Load Rating – Form 2731 – Rating Summary Part 4

Form 2731

Generally, substructure is not required to be load rated but should be input here as required

Rating Summary (1)					
		Inventory		Operating	
Limit State	Behavior	Rating Factor	Location	Rating Factor	Location
Superstructure					
Strength I	Flexure	1.48	S1&3, G1&4, 0.5L	1.91	S1&3, G1&4, 0.5L
	Shear	1.59	S2, G2&3, SZB	2.18	S2, G2&3, SZB
Service I (2)	Stress	N/A	N/A	NA	NA
Service II (3)	Stress	N/A	N/A	N/A	N/A
Service III (4)	Stress	1.01	S2, G2&3, 0.5L	NA	NA
Fatigue (5)	Stress	N/A	N/A	NA	NA
Substructure (6)					
Strength I	Flexure	N/A	N/A	N/A	N/A
	Shear	N/A	N/A	N/A	N/A
Service I (7)	Flexure	N/A	N/A	NA	NA
Controlling Rating Factor (8)		1.01		1.91	

Service I only applies to post-tensioned bent caps

Load Rating – Form 2731 – Rating Summary Part 5

Form 2731

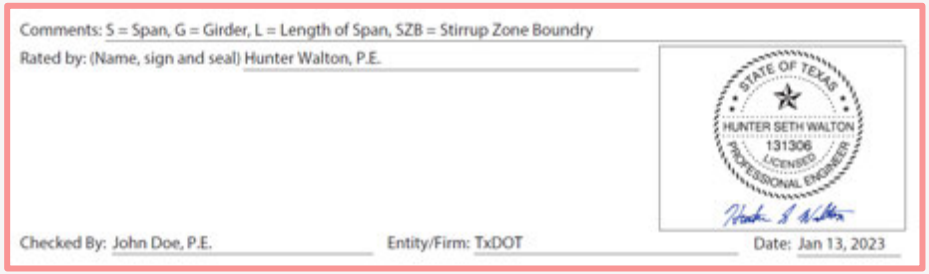
Lowest Operating Rating Listed in Above Columns

Lowest Inventory Rating Listed in Above Columns

Rating Summary (1)					
		Inventory		Operating	
Limit State	Behavior	Rating Factor	Location	Rating Factor	Location
Superstructure					
Strength I	Flexure	1.48	S1&3, G1&4, 0.5L	1.91	S1&3, G1&4, 0.5L
	Shear	1.59	S2, G2&3, SZB	2.18	S2, G2&3, SZB
Service I (2)	Stress	N/A	N/A	NA	NA
Service II (3)	Stress	N/A	N/A	N/A	N/A
Service III (4)	Stress	1.01	S2, G2&3, 0.5L	NA	NA
Fatigue (5)	Stress	N/A	N/A	NA	NA
Substructure (6)					
Strength I	Flexure	N/A	N/A	N/A	N/A
	Shear	N/A	N/A	N/A	N/A
Service I (7)	Flexure	N/A	N/A	NA	NA
Controlling Rating Factor (8)		1.01		1.91	

Load Rating – Form 2731 - Signature

Form 2731



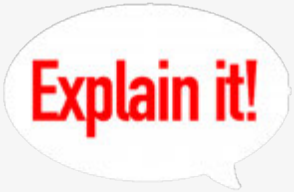
- Form 2731 must be signed and sealed by an Engineer licensed in the State of Texas
- Provide useful comments to clarify any comments provided in the Rating Summary Table
- Note the Engineer who checked the load rating

Load Rating – Form 2731 – Document Notes

Form 2731

Note: If IR for design load is less than 1.0, redesign the bridge.
(1) HL-93 Loading: Enter N/A for ratings not applicable for the structure type in question
(2) Transversely post-tensioned decks only
(3) Steel structures only
(4) Prestressed and post-tensioned structures only
(5) Fracture critical steel structures only
(6) Generally, substructure elements are not load rated
(7) Post-tensioned bent caps only
(8) Lowest rating based on the above limit states/elements
(9) Bridge designed based on TxDOT standard sheets for superstructure
(10) If yes, only the information on this line, the lines above, and the Controlling Rating Factor, Date, and Entity/Firm require entry
Not all TxDOT Bridge Standards are load rated at this time. Indicate "no" if no load rating is indicated, and enter an assigned lower bound value 1.0 (INV) and 1.3 (OPR)

DO NOT DISCLOSE-INFORMATION CONFIDENTIAL UNDER THE TEXAS HOMELAND SECURITY ACT AND 23 USC SECTION 409,
SAFETY SENSITIVE INFORMATION



The bottom of form includes notes corresponding to previous inputs on the sheet to convey intended use, as identified by numbers in parenthesis

Where to keep Load Rating – Form 2731?

- Form 2731 and supporting calculations must be included calculations in the Bridge Design Notes

Documentation of Load Rating on Plans

How to document Load Rating on Plans

- Include the final controlling inventory and operating load ratings on the bridge layout, formatted as follows

  HL-93 Loading: Superstructure Inv/Opr Ratings= X.XX/Y.YY

  Substructure Inv/Opr Ratings= X.XX/Y.YY OR “Substructure Not Rated”

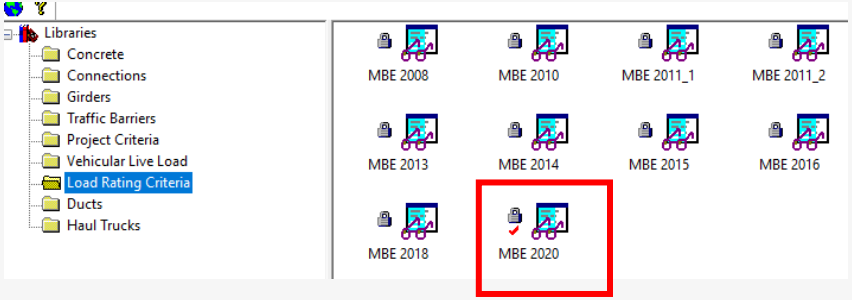
- Include controlling load ratings for all girder designs for inventory and operating on relevant plan sheets

Texas Department of Transportation

Performing Load Ratings on Concrete Superstructures using PGSuper

How to perform Load Ratings Using PG Super

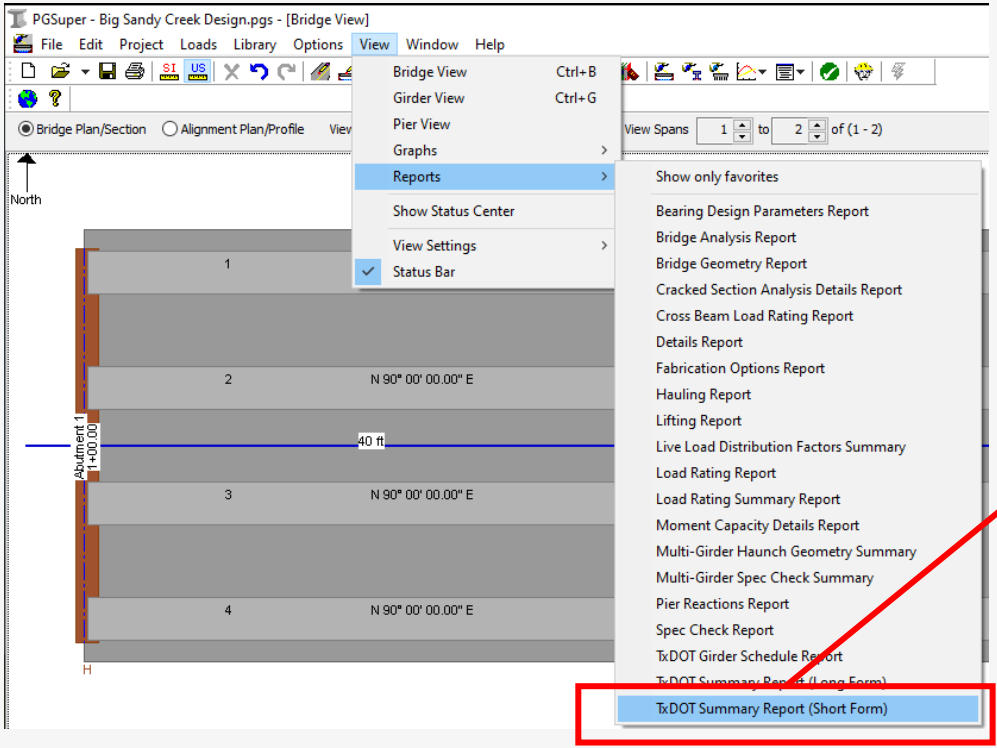
- Bridgelink's PG Super (Version 8.0.7.1) can provide load ratings for all standard TxDOT girder sections
  - TxDOT has coordinated load rating inputs and requirements for this purpose

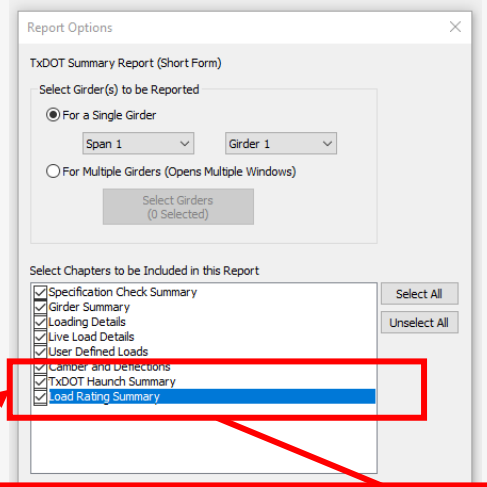


  - The load ratings be reviewed in a multitude of ways after girders have been designed and grouped

Viewing load ratings in PGSuper

View ->Reports -> TxDOT Summary Report (Short Form)





Load Rating Summary

Design Load Rating

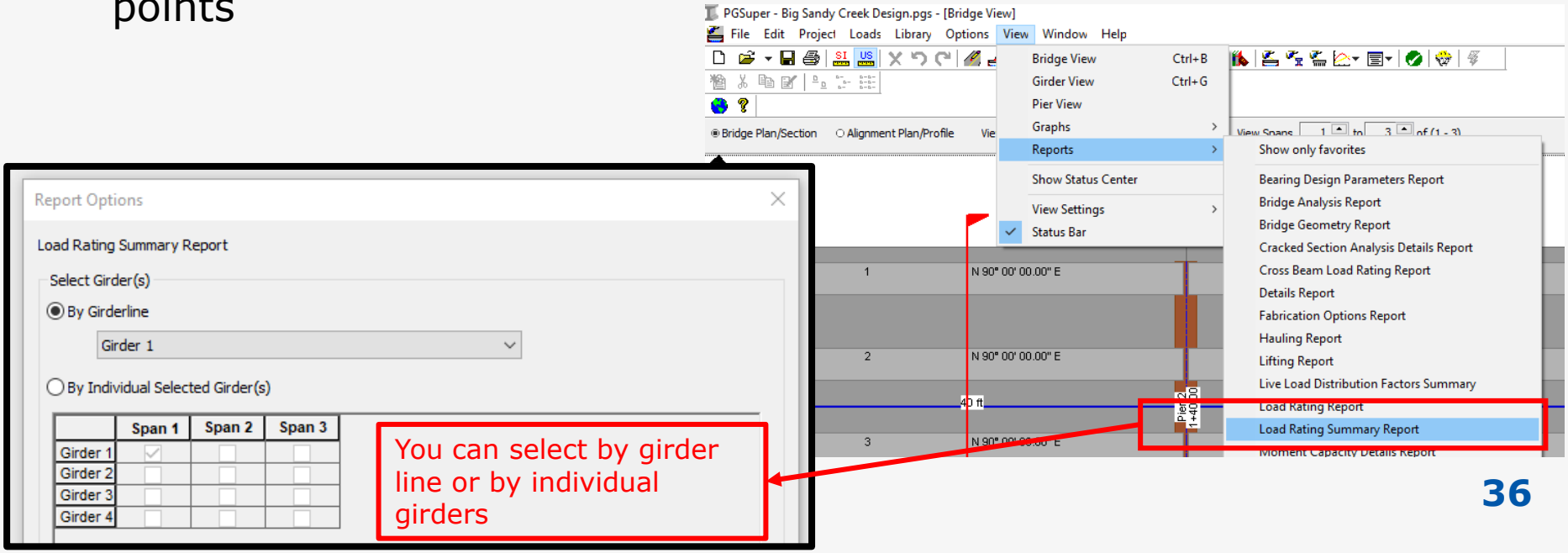
Controlling Factors per Girder

Limit State	Type	Inventory			Operating		
		RF	γ_{LL}	Location from Left Support	RF	γ_{LL}	Location from Left Support
Strength I	Flexure	1.48	1.750	Span 1 Girder 1, ($0.5L_s$) 19.000 ft	1.91	1.350	Span 1 Girder 1, ($0.5L_s$) 19.000 ft
	Shear	3.20	1.750	Span 1 Girder 1, (CS) 4.123 ft	4.15	1.350	Span 1 Girder 1, (CS) 4.123 ft
Service III	Stress	2.38	0.800	Span 1 Girder 1, ($0.5L_s$) 19.000 ft			

Generating a Load Rating Report in PGSuper

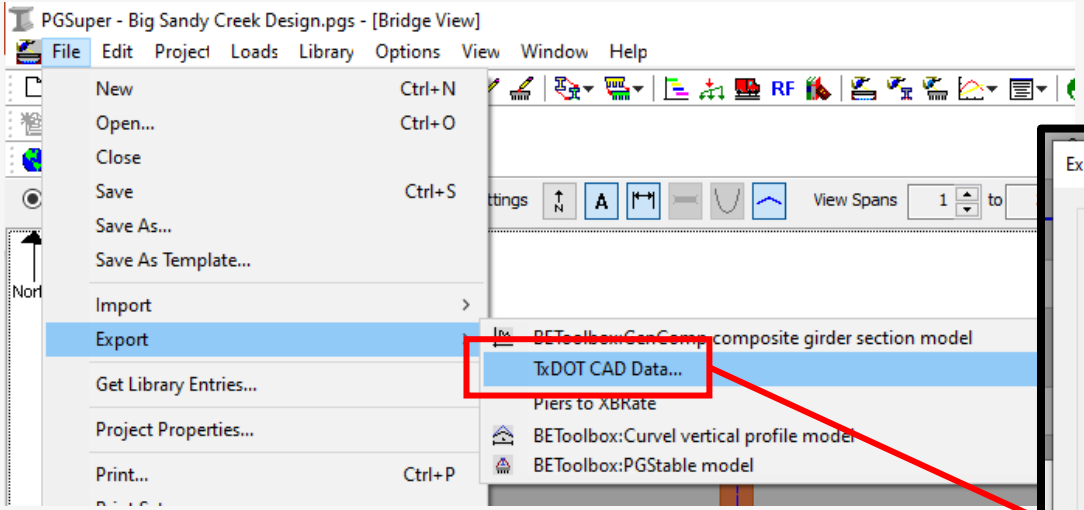
View ->Reports -> Load Rating Summary Report

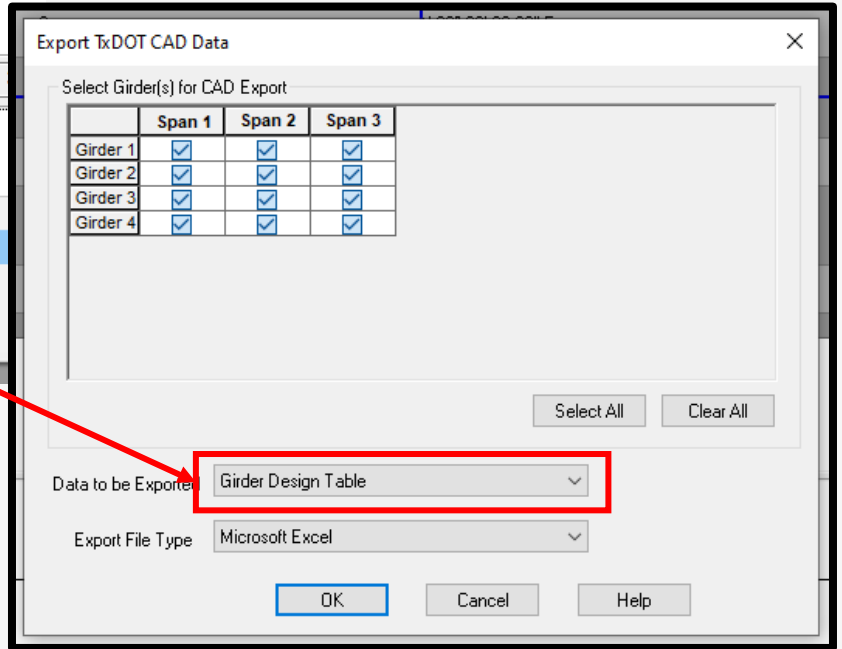
- This will provide the controlling rating by selection and at tenth points



Exporting the Design Table & Load Ratings

Generating CADD Tables for Plans





PGSuper makes it simple to export your girder designs and load rating for use in generating girder design tables

- Save as an excel file ready to import

Girder Design Excel Data Table for Plan Set

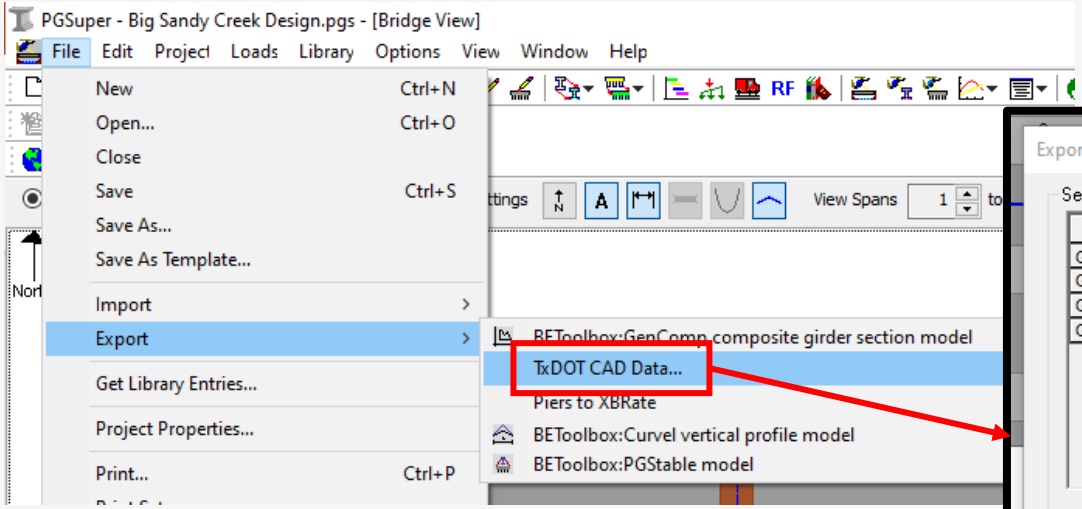
Generating CADD Tables for Plans

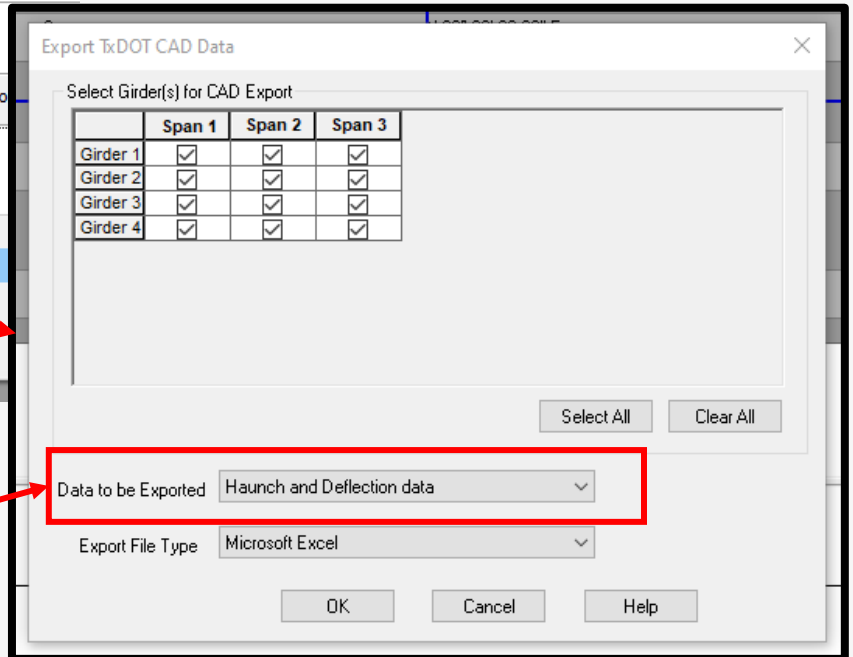
StructureName	DESIGNED GIRDERS									DEPRESSED STRAND PATTERN		CONCRETE		OPTIONAL DESIGN					LOAD RATING		
	Span #	Girder #	Girder Ty	PRESTRESSING STRANDS						#	To End	f'ci	f'c	Comp Stress	Tensile Stress	Ult Moment	LL Distribution Factor		Strength I		Service III
				Non-Std	Total #	Size in	Strength ksi	"e" CL in	"e" END in								Moment	Shear	Inv	Opr	Inv
	1	1	Tx40		8	0.6	270	15.60	15.60			4.000	5.000	0.688	-0.908	1758	0.787	0.814	1.48	1.91	2.38
	1	2	Tx40		10	0.6	270	15.60	15.60			4.000	5.000	0.704	-0.932	1790	0.787	0.814	1.92	2.49	2.89
	1	3	Tx40		10	0.6	270	15.60	15.60			4.000	5.000	0.704	-0.932	1790	0.787	0.814	1.92	2.49	2.89
	1	4	Tx40		8	0.6	270	15.60	15.60			4.000	5.000	0.688	-0.908	1758	0.787	0.814	1.48	1.91	2.38
	2	1	Tx40		34	0.6	270	14.07	8.78	6	36.5	5.400	6.100	3.682	-4.120	5060	0.619	0.814	1.58	2.06	1.06
	2	2	Tx40		34	0.6	270	14.07	10.19	6	28.5	5.800	6.700	3.839	-4.284	5203	0.619	0.814	1.58	2.05	1.01
	2	3	Tx40		34	0.6	270	14.07	10.19	6	28.5	5.800	6.700	3.839	-4.284	5203	0.619	0.814	1.58	2.05	1.01
	2	4	Tx40		34	0.6	270	14.07	8.78	6	36.5	5.400	6.100	3.682	-4.120	5060	0.619	0.814	1.58	2.06	1.06
	3	1	Tx40		8	0.6	270	15.60	15.60			4.000	5.000	0.688	-0.908	1758	0.787	0.814	1.48	1.91	2.38
	3	2	Tx40		10	0.6	270	15.60	15.60			4.000	5.000	0.704	-0.932	1790	0.787	0.814	1.92	2.49	2.89
	3	3	Tx40		10	0.6	270	15.60	15.60			4.000	5.000	0.704	-0.932	1790	0.787	0.814	1.92	2.49	2.89
	3	4	Tx40		8	0.6	270	15.60	15.60			4.000	5.000	0.688	-0.908	1758	0.787	0.814	1.48	1.91	2.38

Excel Report now includes controlling load factors for each girder

Exporting the Haunch & Deflection Table

Generating CADD Tables for Plans – Additional Feature





Change Data to 'Haunch and Deflection Data'

Excel Data Table for Plan Set

Generating CADD Tables for Plans – Additional Feature

TABLE OF SECTION DEPTHS										
Span No.	Beam No.	"X" at ℄ of Brg	"Y" at ℄ of Brg	"Z" at ℄ of Span			Span No.	Beam No.	"A" Ft	"B" Ft
1	1	10 ½"	4'-2 ½"	10 ¼"			1	1	-0.003	-0.004
1	2	10 ½"	4'-2 ½"	10 ⅛"			1	2	-0.003	-0.005
1	3	10 ½"	4'-2 ½"	10 ⅛"			1	3	-0.003	-0.005
1	4	10 ½"	4'-2 ½"	10 ¼"			1	4	-0.003	-0.004
2	1	10 ½"	4'-2 ½"	8 ¼"			2	1	-0.109	-0.155
2	2	10 ½"	4'-2 ½"	8 ⅜"			2	2	-0.124	-0.177
2	3	10 ½"	4'-2 ½"	8 ⅜"			2	3	-0.124	-0.177
2	4	10 ½"	4'-2 ½"	8 ¼"			2	4	-0.109	-0.155
3	1	10 ½"	4'-2 ½"	10 ¼"			3	1	-0.003	-0.004
3	2	10 ½"	4'-2 ½"	10 ⅛"			3	2	-0.003	-0.005
3	3	10 ½"	4'-2 ½"	10 ⅛"			3	3	-0.003	-0.005
3	4	10 ½"	4'-2 ½"	10 ¼"			3	4	-0.003	-0.004

Generates an Excel Report with Table of Section Depths and Dead Load Deflection

Performing Load Ratings for other Structure Types

Load ratings other Structure Types

- Other Programs can generate Load Ratings for various structure types
  - Example: MDX can be used for steel girders
- Use of these programs is at the discretion of the Engineer performing the Rating

Bus Ignoring Weight Limit

ViralHog. (2018, October 16). *Bus Ignores Weight Limit on Bridge* [Video]. YouTube. https://www.youtube.com/watch?v=eHxvj7C0OT8