



Montana Department of Transportation

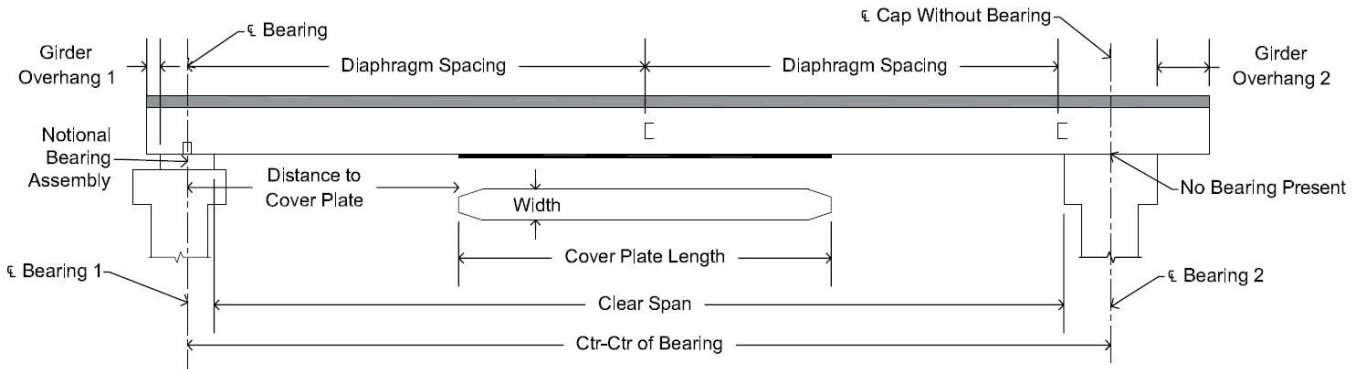
Bridge Bureau

Steel Bridge Measurement

MDT-BRG-005 Rev. 04/21
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Bridge ID: 06932	Location: 11M N LIBBY	Date Submitted: 07/17/2021
Year Built: 1965	Feature Intersected: PIPE CREEK	Inspector: Shane Olson Sudhir Suresh
District: Missoula	County: 053 LINCOLN	

STEEL SIMPLE SPAN LENGTH DEFINITIONS



Girders and girder bays are numbered from left to right while looking ahead on line.
Girder Overhang is the distance that the girder extends past the bearing.
Bearing 1 is the lowest number Bent/Abutment.
Clear span is distance the girder spans without a support.

Span Number	Span Length (ctr to ctr of bearing) (ft)	Clear Span (ft)	Girder Overhang 1 (in)	Girder Overhang 2 (in)	Skew (degrees)
1	59.0	56.0	6.0	6.0	35

Diaphragm Present?

☒ Yes ☐ No

Attach Plan view sketch of diaphragm locations.
All diaphragm locations should be referenced from centerline of bearing.

Cover Plates:

Yes ☒

Span	Girder(s)	Distance to Cover Plate from brg 1 (ft)	Length of Cover Plate (ft)	Width of Cover Plate (in)	Thickness of Cover Plate (in)
1	1-5	10'-4"	38'-4"		
1	1-5	24'-11"	9'-2"		

Comments:

Bridge orientation/numbering: W-E, elements numbered looking up station from left to right (G1-G5).
All girders have 1" haunch thickness and top flanges are embedded in haunch.
Cover plates, interior diaphragms and stiffeners were inaccessible.
Cover Plate thickness and widths could not be measured, lengths were laser measured, and cover plate ends are welded.
Diaphragms are I Beams located at 1/3rd points and CL of bearing.
2 stiffeners on both sides per interior girder + 2 diaphragm connection plates.

Add comments as necessary to address anything not covered on this measurement sheet.



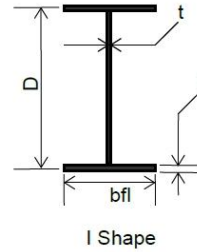
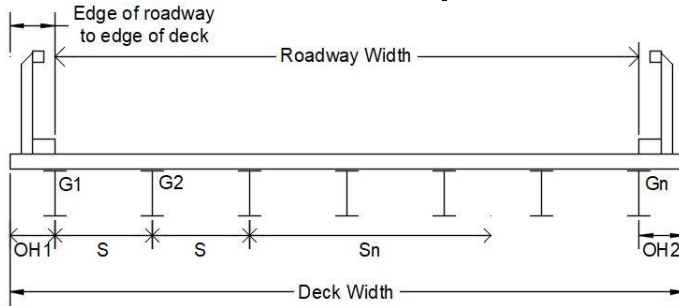
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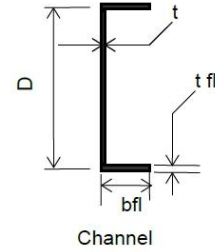
Steel Bridge Measurement

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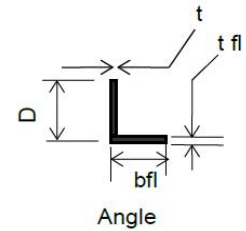
Span Cross-Section Measurement



I Shape



Channel



Angle

Span No: 1

Roadway Width (Curb to Curb) (ft): 28.25

Number of Girders: 5

Deck Width (ft): 32

Roadway to edge of deck (in): Left Side: 22.5 Right Side: 22.5

Girder Material: Plain Steel

Deck Overhang: OH 1 (in): 29 OH 2 (in): 29

Note: Girder shapes can be I shapes, C for Channel shapes, A for Angle Shapes, or O for built-up and strange shapes. Provide a sketch/photo if you enter an O shape. O should also be used for shapes with variable cross-sections (variable girder depth, etc).

Girder Cross Section	Shape (I, C, A, or O)	D (depth) (in)	bfl (flange width) (in)	tfl (flange thickness) (in)	tweb (web thickness) (in)
A	I	6.125	6.0	0.25	0.25
B	I	17.75	6.125	0.4375	0.3125
C	I	35.25	12.0	0.8125	0.6875
D					
E					

Girder	Cross Section	Spacing (in)
1	C	81.5
2	C	81.5
3	C	81.5
4	C	81.5
5	C	81.5
6		
7		

Girder	Cross Section	Spacing (in)
8		
9		
10		
11		
12		
13		
14		

Comments

Steel Posts: Cross Section "A", 39.5" H - 11 per side.
Steel Offset Block: Cross Section "B", 13.5" H with double thick MBR - 11 per side.



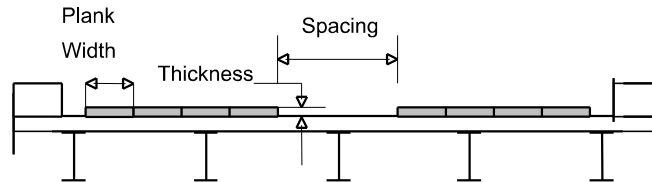
MDT-BRG-009 Rev. 4/2021

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Deck Measurement

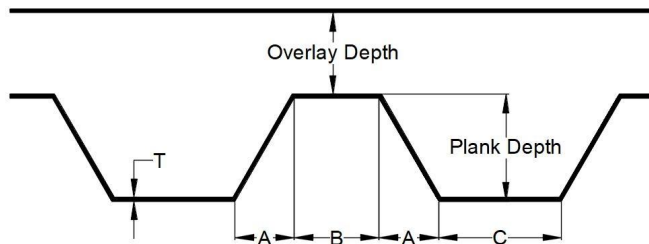
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Year Built: 1965	Feature Intersected: PIPE CREEK	Inspector: Shane Olson Sudhir Suresh
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Deck Material:☐ Timber

Deck Species: ☐ **Conditions:** ☐ **Overlay Depth (in) =** **Overlay Material=**

Deck Type	Board Width (in)	Board Thickness (in)	Running Planks	Running Plank Width (in)	Running Plank Thickness (in)	Number of Running Planks Left	Number of Running Planks Right	Running Plank Spacing (ft)
☐			☐					

☒ **Concrete** **Concrete Type:** Reinforced Cast-in-Place ☐ **Concrete Deck Thickness (in):** 9.75

☐ **Corrugated Metal Decking:****A (in)=** **C (in)=** **B (in)=** **T (in)=** **Plank Depth (in) =** **Overlay Depth (in) =** **Overlay Material=**

☐ **Other (specify):** **Thickness (in)=**

Curb: Yes ☐

Material= Concrete **Top Width (in)=** 22.5 **Bottom Width (in)=** 22.5 **Height (in)=** 9.5

Guardrail: ☐

Type= **Height (in)=** **Post Material=**

Skew: ☐ **Degrees** **Comments:**

Bituminous Wearing Surface Thickness: 0.6875".