

Sierra Northern Railway

Ventura Division

Detailed Inspection 11/30/2022

Location/Access:

Town or Station: Filmore State: CA

GPS: N 34.4063 W 118.9318

Access Notes: T - Truck

Track/Bridge Information:

Bridge/Track: Tangent

Number of Tracks: 1

Superelevated: No

Superelevation Direction:

Mile Increase: West to East

Members Numbered From: North



Bridge 423.44

Bridge Description:

Super/Type: Concrete Box Girders

Sub Type: Steel/Concrete

Deck: Ballast

Year Built: 1969

Number of Spans: 15

Section Length: 450'

Maximum Height: 26'

Skewed: No

Guard Rail: No

Utilities Present:

Walkway: Yes

Walkway Location: Both Sides

Site Condition:

Feature Crossed: Sespe Creek

Maximum Water Depth: 1'

Scour Susceptible: No

Drift: No

Priority:

Vegetation: No

Priority:

Action Required:

Requires Bridge Engineer Review: No

Underwater Inspection Required: No

Snooper Truck Required: No

Lead Inspector: G. Grumke

Date Approved: 01/22/2023

Inspection Summary

Line: Ventura Division

Bridge # 423.44	
Milepost: 423.44	Section: 1
Type: Concrete Box Girders	Location: Filmore, CA
Inspection Date(s): 11/30/2022	Inspector: G. Grumke, S. Radlinger
Inspection Type: Detailed	Critical Review By RBE: No

Findings:

Finding Notes:

Steel Bent 2 Concrete Pedestal	Sub Piles 15% section loss Undermined 3'
Steel Bent 4 Concrete Pedestal	Sub Piles 15% section loss H-Pile 1 - Bent at 3' Undermined 1 1/2'
Approaches	Low
West Headwall	Fair (undermined 3')
East Headwall	OK
Walkways	OK
Walkway Supports	OK
General Section	Bents 2 - 15 have Concrete between H-Piles

Recommended Work:

Item#	Priority	Repair Description
1	3	Add ballast and tamp up both approaches

Completed Work:

Date	Item#	Repair Description
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Bridge 423.44 Deck View



Bridge 423.44 Dump Bent



Bridge 423.44 Typical Bent



Bridge 423.44 Typical Concrete
between Piles

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Bridge 423.44 Typical Span

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Structure Report

Bridge # 423.44	
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Substructure

Structure	Member	Priority/ Status	Remarks	Dimensions (WxDxL)
Steel Bent 1		OK	Steel Bent with 3 Steel H-Piles and Concrete Cap	9'
Steel Bent 2			Steel Bent with 3 Steel H-Piles and Concrete Cap on a Concrete Pedestal	16'
	Concrete Pedestal		Sub Piles 15% section loss Undermined 3'	
Steel Bent 3		OK	Steel Bent with 3 Steel H-Piles and Concrete Cap	17'
Steel Bent 5		OK	Steel Bent with 3 Steel H-Piles and Concrete Cap	9'
Steel Bent 4			Steel Bent with 3 Steel H-Piles and Concrete Cap on a Concrete Pedestal	16'
	Concrete Pedestal		Sub Piles 15% section loss H-Pile 1 - Bent at 3' Undermined 1 1/2'	
Steel Bent 6		OK	Steel Bent with 3 Steel H-Piles and Concrete Cap	9'
Steel Bent 7		OK	Steel Bent with 3 Steel H-Piles and Concrete Cap	8'
Steel Bent 8		OK	Steel Bent with 3 Steel H-Piles and Concrete Cap	8'
Steel Bent 9		OK	Steel Bent with 3 Steel H-Piles and Concrete Cap	10'
Steel Bent 10		OK	Steel Bent with 3 Steel H-Piles and Concrete Cap on a Concrete Pedestal	10'
	Concrete Pedestal	OK		
Steel Bent 11		OK	Steel Bent with 3 Steel H-Piles and Concrete Cap	10'
Steel Bent 12		OK	Steel Bent with 3 Steel H-Piles and Concrete Cap	12'
Steel Bent 13		OK	Steel Bent with 3 Steel H-Piles and Concrete Cap	11'
Steel Bent 14		OK	Steel Bent with 3 Steel H-Piles and Concrete Cap	5'
Steel Bent 15		OK	Steel Bent with 3 Steel H-Piles and Concrete Cap	5'
Steel Bent 16		OK	Steel Bent with 3 Steel H-Piles and Concrete Cap	3'

CN - Cornering	G/L - Groundline Area	P/W - Heavy Duty Pile Wrap	SR - Shell Rot	Mileage Increases from: West Members are Numbered From: North (Railroad Directions)
CR- Crushing	H - Heart	PE - Possible Exception	ST - Shell Thickness	
D/P - Drift Pin	HS - (Cap) Heart Separation	PP - Previously Posted	V - Void	
DP - Decay Pocket	HS - (Stringer) Horizontal Shear	RS - Ring Separation	VE - Visual Exception	
DR - Decay Ring	MD - Mechanical Damage	S - Min. or Max Shell	VS - Vertical Split	
E - Exception	O/W - OsmoWeld	SLCR - Slight Crushing	WPH - Wood Pecker Hole	

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Superstructure

Structure	Member	Priority/ Status	Remarks	Dimensions (WxDxL)
Span 1		OK		30'-0"
Span 2		OK		30'-0"
Span 3		OK		30'-0"
Span 4		OK		30'-0"
Span 5		OK		30'-0"
Span 6		OK		30'-0"
Span 7		OK		30'-0"
Span 8		OK		30'-0"
Span 9		OK		30'-0"
Span 10		OK		30'-0"
Span 11		OK		30'-0"
Span 12		OK		30'-0"
Span 13		OK		30'-0"
Span 14		OK		30'-0"
Span 15		OK		30'-0"

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Other

Structure	Member	Priority/ Status	Remarks	Dimensions (WxDxL)
Approaches		3	Low	
West Headwall		4	Fair (undermined 3')	
East Headwall		OK		
Walkways		OK	Both Sides OK	
	Walkway Supports	OK		
General Section			Bents 2 - 15 have Concrete between H-Piles	

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