

BLUE = FHWA

GREEN = ODOT

Yellow = New

# STATE OF OHIO BRIDGE INSPECTION FIELD REPORT

ADE = Agency Developed Element  
BME = Bridge Management Element  
NBE = National Bridge Element  
RC Guide = Recording & Coding Guide

SFN  
DIST

Bridge Number  
Feature Intersected

Year  
Mu

## APPROACH ITEMS

	Total Qty.	condition state				Cond Rating	Tran. Rating
		CS 1	CS 2	CS 3	CS 4		
c1. Wearing Surface (EA)						<u>ADE</u>	
c2. Slab (SF)						<u>BME</u>	
c3. Relief Joint (LF)						<u>ADE</u>	
c4. Embankment (EA) <sup>ded</sup>						<u>ADE</u>	
c5. Guardrail (EA)						<u>ADE</u>	
N36. Safety Features: Tr, Gr, Tm						<u>RC GUIDE</u>	
c6. Approach Summary					(9-0)	<u>ADE</u>	

**Total Qty** = The total quantity of each component on the bridge in the designated units (SF, LF or EA). These may be populated directly into SMS OR from the Inventory equations. Condition States 1 + 2 + 3 + 4 = Total Qty

**ded** = 'dedicated' guidance in the manual; all others can use the material guidance sheets

**Condition Rating** = Same as the BR-86 individual ratings of a 1, 2, 3 or 4  
**Transition Rating** = 'weighted average' calculation from the quantities assigned in CS1-CS4. This is the 'link' to help inspectors transition to Elemental Level inspections by providing a number close to what would be coded with a Condition Rating

## DECK ITEMS

	Total Qty.	condition state				Cond Rating	Tran. Rating
		CS 1	CS 2	CS 3	CS 4		
c7.1 Floor/Slab (SF)						<u>Partial NBE</u>	
<b>c7.2 Edge of Floor/Slab (LF)</b>						<u>Partial NBE</u>	
c8. Wearing Surface (SF)						<u>BME</u>	
c9. Curbs/Sidewalk (LF)						<u>ADE</u>	
c10. Median (LF)						<u>Partial NBE</u>	
c11. Railing (LF)						<u>NBE</u>	
N36. Safety Features: Rail						<u>RC GUIDE</u>	
c12. Drainage (EA) <sup>ded</sup>						<u>ADE</u>	
c13. Expansion Joint (LF) <sup>ded</sup>						<u>BME</u>	
N58. Deck Summary					(9-0)	<u>RC GUIDE</u>	

**Edge of Floor/Slab** = 2-ft edge or soffit of the structural deck that supports the railing. This should not be coded for PSBB's.  
**C7.1 Floor/Slab** = the quantity does not include the 2-ft edge

**Bold Boxes** = These will continue to influence the 9-0 SUMMARY ratings

**red** = These are quantity units that will be made in SMS after Go-Live

**9-0** = SUMMARY ratings will continue to be coded based off of the lowest Bold Box Condition Rating or Transition Rating (for Element Level inspections)

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SUPERSTRUCTURE ITEMS		condition state		Cond Rating
		CS 3	CS 4	Tran. Rating
c14. Alignment (EA) <sup>ded</sup>				DEFECT 1900
c15.1 Beams/Girders (LF)				<a href="#">NBE</a>
<b>c15.2 Slab (SF)</b>				<a href="#">Partial NBE</a>
c16. Diaphragm/X-Frames (EA)				<a href="#">ADE</a>
c17. Stringers (LF)				<a href="#">NBE</a>
c18. Floorbeams (LF)				<a href="#">NBE</a>
c19. Truss Verticals (EA)				<a href="#">Partial NBE</a>
c20. Truss Diagonals (EA)				<a href="#">Partial NBE</a>
c21. Truss Upper Chord (EA)				<a href="#">Partial NBE</a>
c22. Truss Lower Chord (EA)				<a href="#">Partial NBE</a>
c23. Truss Gusset Plate (EA) <sup>ded</sup>				<a href="#">NBE</a>
c24. Lateral Bracing (EA)				<a href="#">ADE</a>
c25. Sway Bracing (EA)				<a href="#">ADE</a>
c26. Bearing Devices (EA) <sup>ded</sup>				<a href="#">NBE</a>
c27. Arch (LF)				<a href="#">NBE</a>
c28. Arch Column/Hanger (EA)				<a href="#">Partial NBE</a>
c29. Arch Spandrel Walls (LF)				<a href="#">NBE</a>
c30. Prot. Coating System (LF) <sup>ded</sup>				<a href="#">BME</a>
c31. Pins/Hangers/Hinges (EA) <sup>ded</sup>				<a href="#">NBE</a>
c32. Fatigue (LF) <sup>ded</sup>				DEFECT 1010
N59. Superstructure Summary			(9-0)	<a href="#">RC GUIDE</a>

**PSBB's** = AASHTO requires Top Flange rated for Non-Composite and Concrete Deck rated for Composite PSBB. ODOT will back-calculate to produce the schema.

**Slab** = Item 10 on the BR-86 was Beams/Girders/Slab. The units for Slab had to be Square Feet and the units for Beams/Girders had to be Linear Feet. Therefore these had to be separated into two components. The SF does not include deck edges and will be the same value as C7.1 Floor/Slab.

**Truss** = AASHTO Quantity is Linear Feet of truss-line similar to Beams/Girders. ODOT will back-calculate to produce the schema.

**PCS** = AASHTO Quantity is Square Feet for any element that is protectively coated not just for primary superstructure elements. ODOT will consider changing to SF and making an enhancement with the SMS vendor to produce the schema for non-primary superstructure elements. Until then PCS will be LF on primary superstructure elements. This component is now a 1-4 and not 9-0.

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SUBSTRUCTURE ITEMS	Total Qty.	condition state				Cond Rating
		CS 1	CS 2	CS 3	CS 4	Tran. Rating
c33. Abutment Walls (LF)						Partial NBE
c34. Abutment Caps (LF)						Partial NBE
<b>c35. Abut. Colmns/Bents (EA)</b>						Partial NBE
c36. Pier Walls (LF)						NBE
c37. Pier Caps (LF)						NBE
<b>c38. Pier Columns/Bents (EA)</b>						NBE
c39. Backwalls (LF)						Partial NBE
c40. Wingwalls (EA)						ADE
c42. Scour (EA) <sup>ded</sup>						DEFECT 6000
c43. Slope Protection (EA) <sup>ded</sup>						ADE
N60. Substructure Summary						RC GUIDE

Partial NBE = Partial National Bridge Element that when added with other Partial NBE's will encompass one NBE

Columns & Bents = New item for Element Level reporting

ADE = Agency Developed Element that is a legacy code not reported to FHWA.

Defect # = This references a specific Defect from the AASHTO Element level manual and is an Ohio legacy rating used to highlight important defects (double-counted in the appropriate item)

CULVERT ITEMS	Total Qty.	condition state				Cond Rating
		CS 1	CS 2	CS 3	CS 4	Tran. Rating
c44. General (LF)						Partial NBE
c45. Alignment (LF) <sup>ded</sup>						DEFECT 4000
c46. Shape (LF) <sup>ded</sup>						DEFECT 1900
c47. Seams (EA) <sup>ded</sup>						DEFECT 1020
c48. Headwall/Endwall (EA)						ADE
c49. Scour (EA) <sup>ded</sup>						DEFECT 6000
c50. Abutments (LF)						Partial NBE
N62. Culvert Summary						RC GUIDE

CS 1 = Condition State 1 "GOOD"

CS 2 = Condition State 1 "FAIR"

CS 3 = Condition State 1 "POOR"

CS 4 = Condition State 1 "SEVERE"

(9-0)

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CHANNEL ITEMS	Total Qty.	condition state				Cond Rating
		CS 1	CS 2	CS 3	CS 4	Tran. Rating
c51. Alignment (LF) <sup>ded</sup>						ADE
c52. Protection (LF) <sup>ded</sup>						ADE
c53. Hydraulic Opening (EA) <sup>ded</sup>						ADE
c54. Navigation Lights (EA) <sup>ded</sup>						ADE
N61. Channel Summary					(9-0)	RC GUIDE
SIGN/UTILITY ITEMS	Total Qty.	condition state				Cond Rating
		CS 1	CS 2	CS 3	CS 4	Tran. Rating
c55. Signs (EA) <sup>ded</sup>						ADE
c56. Sign Supports (EA) <sup>ded</sup>						ADE
c57. Utilities (LF) <sup>ded</sup>						ADE
N59, 60 or 62 General Appraisal					(9-0)	RC GUIDE
N41. Operating Status						RC GUIDE