

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

**BRIDGE INSPECTION REPORT**

**1805371** Bridge Number **CUY 00071 1791 R** **CLEVELAND** Year Built **19690701**

**Dist 12** Bridge Type **STEEL /BEAM/CONT** ON/UND **1** Type Serv **6 1** **SR 176(1328)JENNINGS FWY**

<b>DECK</b>			
1. Floor	2	2. Wearing Surface	2
3. Curbs,Sidewalks & Walkways		4. Median	
5. Railing	2	6. Drainage	2
7. Expansion Joints	4	8. <b>Summary</b>	<b>6</b>
<b>SUPERSTRUCTURE</b>			
9. Alignment	1	10. Beams/Girders/Slab	1
11. Diaphragms or Crossframes	2	12. Joists/Stringers	
13. Floor Beams		14. Floor Beam Connections	
15. Verticals		16. Diagonals	
17. End Posts		18. Top Chord	
19. Lower Cord		20. Lower Lateral Bracing	1
21. Top Lateral Bracing		22. Sway Bracing	
23. Portals		24. Bearing Devices	2
25. Arch		26. Arch Columns or Hangers	
27. Spandrel Walls		28. Paint	7
29. Pins/Hangers/Hinges	2	30. Fatigue Prone Conections	2
31. Live Load Response	S	32. <b>Summary</b>	<b>6</b>
<b>SUBSTRUCTURE</b>			
30. Abutments	1	34. Abutment Seats	1
35. Piers	2	36. Pier Seats	1
37. Backwalls	2	38. Wingwalls	2
39. Fenders and Dolphins		40. Scour	1
41. Slope Protection	1	42. <b>Summary</b>	<b>6</b>
<b>CULVERT</b>			
43. General		44. Alignment	
45. Shape		46. Seams	
47. Headwalls or Endwalls		48. Scour	
49.		50. <b>Summary</b>	
<b>CHANNEL</b>			
51. Alignment		52. Protection	
53. Waterway Adequacy		54. <b>Summary</b>	
<b>APPROACHES</b>			
55. Pavement	2	56. Approach Slabs	1
57. Guardrail	2	58. Relief Joints	1
59. Embankment	1	60. <b>Summary</b>	<b>6</b>
<b>GENERAL</b>			
61. Navigation Lights		62. Warning Signs	
63. Sign Supports	1	64. Utilities	

65. Vertical Clearance

1

66. **General Appraisal & Operational Status**

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67. Inspected By **MJS 7/22/2005**68. Reviewed By **MJM 11/28/2005**

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**REMARKS****1805371**Bridge Number **CUY 00071 1791 R****CLEVELAND**Year Built **19690701**Deck:

FLOOR: TRANSVERSE CRACKS @ 20' SPACING. SOME SPALLS. PATCHED THRU HOLE IN SPAN 20. MINOR DELAMINATIONS. 1 TO 5% DETERIORATION.

WS: 15% CONCRETE PATCHES. 25 SF BREAKING UP. 20 SF OF ASPHALT PATCHES. 10 SF SPALLED. MINOR DELAMS. 1-5% DET. RAILING: MAP CRACKS. A FEW COLLISION SPALLS.

DRAINAGE: DEBRIS IN BERMS. A FEW RUSTING THRU HOLES TO DOWNSPOUTS NEAR ABUTMENTS.

EXPANSION JOINTS: SOME SEALS ARE TORN & LEAKING. SEALS PUSHED UP INTO TRAFFIC IN RIGHT BERM AT EXPANSION JOINTS 1A AND 4AE. SEE PHOTO 12 DATED 7-18-04. SEVERAL BEAMS INTO BACKWALL @ 490 RAMP FINISH (NORTH) ABUTMENT.

Superstructure:

BEAMS: MINOR COLLISION DAMAGE TO LEFT FASCIA BEAM OVER RAMP FROM I-71 SB TO SR 176 SB WITH ONE BENT XFRAME.

XFRAME:RUSTING SECTION LOSS AND THRU HOLES @ HINGES. RUST SEVERED XFRAME IN BAY 4 AT HINGE 2A. CRACKS IN ANGLE TO STIFFENER WELDS @ HINGES 1A & 2A AND ANGLE TO WEB WELDS IN SPAN 15. SEE PHOTOS 1,2,5,6 AND PLAN SHEET DATED 7-12-04 IN BRIDGE FILE.

BEARINGS: 4 OF 7 ROCKERS TIPPED OUT AT FINISH ABUTMENT, I-490 RAMP.

HINGES: RUSTING SECTION LOSS TO LOWER FLANGES AND WEBS OF LOWER CANTILEVERED BEAMS. BROKEN AND CRACKED CLIP ANGLE WELDS HOLDING ABANDONED DRAIN TROUGHS AT HINGES 1A AND 2A. SEE PHOTOS 1,3,4 AND 7 DATED 7-12-04.

FATIGUE PRONE CONNECTIONS: SLOPPY WELDING DETAILS WHERE BEAMS FRAME INTO STEEL PIER CAPS.

SEE PHOTOS 1 THRU 4 DATED 07-22-05.

PAINT: 1% RUST. 1-5% DET.

Substructure:

PIER: CRACK MONITORS WERE INSTALLED AT EAST END OF PIER CAPS 6 AND 16. SEE PHOTOS 1 & 2 FROM 2003 REPORT IN BRIDGE FILE (NO CHANGE FROM INSTALL DATE). COLUMNS OF PIERS 8 THRU 16 HAVE LARGE DELAMS AND/OR SPALLED AREAS WITH HELICAL REBAR EXPOSURE. CRACKS TO CANTILEVERED PARTS. SEE PHOTOS 10 AND 11 DATED 7-12-04. SPALLS AND DELAMINATIONS ON SOME PIER CAPS.

BACKWALLS: DEEP SPALL, SEE PHOTO #8 DATED 7-12-04. CRACKS. RUST STAINS.

WINGWALLS: MINOR DELAMINATIONS. ONE LARGE VOID @ 490 RAMP ABUTMENT, SEE PHOTO #9 DATED 7-12-04.

Approaches:

PAVEMENT: SOME CRACKS. A FEW PATCHES.

GUARDRAIL: COLLISION DAMAGE REPAIRED.

General:

SIGN SUPPORTS: HEAVY VIBRATIONS OF TRUSS TYPE OVERHEAD SIGN.  
REACHALL AND BOX GIRDER ENTRY BY MS ON 07/18/05.