Type: Stress-laminated sawn lumber
County: Richland
Owner: Richland County
Built in: June, 1995
Fabricator: Decker, Inc.
Engineer: Richland County Engineer
Spans over: Unnamed creek
Bridge length: 4.9 meters (16’-0”)
Roadway width: 7.3 meters (24’-0”)

Directions: From Butler travel east on OH 97 approximately 4 miles to the intersection of OH 97 and McCurdy Road. Turn right onto McCurdy Road and the bridge site is .1 miles from the intersection.
**GEOMETRY**

Number of Spans: 2  
Out-to-out length: 4.9 meters (16’-0”)  
Center-of-bearing length: 4.6 meters (15’-0”)  
Skew: 0  
Number of lanes: 2  
Out-to-out width: 7.9 meters (26’-0”)  
Curb-to-curb width: 7.3 meters (24’-0”)  
Superstructure square footage: 416 sq. ft.

Design load: AASHTO HS-20  
Averaged daily traffic: 279 (1996)  
Design by: Richland County Engineer  
Abutment material: Wood

Total wood quantity: 10,138 bf  
Total wood cost: $27,677  
Total project cost: $61,809  
Total superstructure cost: $32,500  
Total superstructure cost/sq. ft.: $78.00

---

**MATERIAL**

<table>
<thead>
<tr>
<th>DECK</th>
<th>BEAMS/STRINGERS (none)</th>
<th>GUIDERAIL POSTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade: Structural No. 2</td>
<td>Grade: Structural No. 2</td>
<td>Grade: Structural No. 2</td>
</tr>
<tr>
<td>Species: Southern pine</td>
<td>Species: Southern pine</td>
<td>Species: Southern pine</td>
</tr>
<tr>
<td>Sizes used: 50x250 mm (2’x10”)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quantity: 3,360 bf</td>
<td></td>
<td>Quantity: 6</td>
</tr>
<tr>
<td>Drying method: Kiln</td>
<td>Drying method: Kiln</td>
<td>Drying method: Kiln</td>
</tr>
<tr>
<td>Preservative treatment: ACQ</td>
<td>Preservative treatment: ACQ</td>
<td>Preservative treatment: ACQ</td>
</tr>
<tr>
<td>Retention: 0.6 pcf</td>
<td>Retention: 0.6 pcf</td>
<td>Retention: 0.6 pcf</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GUIDERAIL CURB</th>
<th>GUIDERAIL</th>
<th>STRESSING STEEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material: Wood</td>
<td>Material: Steel (type-V) deep beam</td>
<td>Grade: A-108</td>
</tr>
<tr>
<td>Grade: Structural No. 2</td>
<td>Species: Southern pine (backup)</td>
<td>Manufacturer: Dwydag Systems</td>
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<tr>
<td>Species: Southern pine</td>
<td>Quantity: 32 lineal feet on structure, 96 lineal feet off structure</td>
<td>Bar Diameter: 25mm (1”)</td>
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<tr>
<td>Size: 150x300 mm (6”x12”)</td>
<td>Preservative treatment: Galvanized</td>
<td>Coating: Galvanized</td>
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<tr>
<td>Quantity: 32 lineal feet</td>
<td></td>
<td>Quantity: 6</td>
</tr>
<tr>
<td>Preservative Treatment: ACQ</td>
<td></td>
<td>Bearing plate size: 200x200mm (8”x8”)</td>
</tr>
</tbody>
</table>

**LOCAL IMPACT:** McCurdy Road Bridge Project will allow access to all legal vehicles to the southeast corner of Richland County. The project restores full capacity to McCurdy Road including agricultural vehicles, fire and safety equipment, school buses and normal commerce vehicles. The bridge also permits access to the Mohican Recreation Area by large RV type vehicles.

**BRIDGE PERFORMANCE:** The McCurdy Road Bridge replaces a structurally deficient and functionally obsolete concrete bridge which restricted traffic to the general area by severe load limitations. The construction was performed by Force Account using the personnel and equipment of the Richland County Highway Department. Project Management was performed by Gregory Bush, Richland County Bridge Supervisor and General Supervision was by Darryl Wittmer, Richland County Highway Superintendent.

**FABRICATION AND ERECTION:** Bridge materials were supplied and treated by Decker, Inc., Elmira, NY and McArther Lumber Company, McArther, Ohio. Fabrication was done in the field by the Richland County Highway Department.

**FUNDING SOURCES:** USDA Forest Service: $24,515; Balance of funding from other sources.

**LOCAL CONTACT:** Charles A. Hill, P.E., P.S./Chief Deputy Engineer  
Richland County Engineer, Thomas E. Beck, P.E., P.S.  
77 N. Mulberry St.  
Mansfield, OH 44902  
Phone: 419-774-5591  
Fax: 419-774-5539

Information provided by Richland County Engineer

WIT Program Proposal Number: NA-032-94-VEH  
Federal Grant Identifier: NA-94-0121

November 2000

Northeastern Area  
State and Private Forestry  
The National Wood In  
Transportation Program