HUNTSMAN ROAD BRIDGE, Richland County, Ohio

Type: Stress-laminated
County: Richland
Owner: Richland County
Built in: 1998
Fabricator: McArthur Lumber & Post, Inc.
Engineer: Richland County
Spans over: Tributary to the Cedar Fork
Bridge length: 30’-1”
Roadway width: 24’-0”

Directions: From Lexington, take OH 546 south 5.5 miles to the intersection of OH 546 and Bellville Johnsville Road. Right onto Bellville Johnsville Road .8 miles to Darlington North Road. Left onto Darlington North Road .5 miles to Huntsman Road. Right onto Huntsman Road and bridge site is .3 miles from the intersection of Huntsman Road and Darlington North Road.
# GEOMETRY

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Spans</td>
<td>2</td>
</tr>
<tr>
<td>Out-to-out length</td>
<td>30'-1&quot;</td>
</tr>
<tr>
<td>Center-of-bearing length</td>
<td>14'-6 1/2&quot;</td>
</tr>
<tr>
<td>Skew</td>
<td>0 degrees</td>
</tr>
<tr>
<td>Number of lanes</td>
<td>2</td>
</tr>
<tr>
<td>Out-to-out width</td>
<td>26'-0&quot;</td>
</tr>
<tr>
<td>Curb-to-curb width</td>
<td>24'-0&quot;</td>
</tr>
<tr>
<td>Superstructure square footage</td>
<td>781</td>
</tr>
<tr>
<td>Design load</td>
<td>AASHTO HS-20</td>
</tr>
<tr>
<td>Averaged daily traffic</td>
<td>40</td>
</tr>
<tr>
<td>Design by</td>
<td>Richland County</td>
</tr>
<tr>
<td>Abutment material</td>
<td>Wood pile with wood caps</td>
</tr>
<tr>
<td>Total wood quantity</td>
<td>11,224 bf</td>
</tr>
<tr>
<td>Total wood cost</td>
<td>$35,453</td>
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<tr>
<td>Total project cost</td>
<td>$104,329</td>
</tr>
<tr>
<td>Skew</td>
<td>0 degrees</td>
</tr>
<tr>
<td>Abutment material</td>
<td>Wood pile with wood caps</td>
</tr>
</tbody>
</table>

# MATERIAL

**DECK**

- **Material**: Wood
- **Grade**: Visual grade #1
- **Species**: Southern pine
- **Sizes used**: 2” x 10”
- **Quantity**: 10,400 bf
- **Drying method**: Kiln
- **Preservative treatment**: ACQ

**BEAMS/STRINGERS (none)**

**GUIDERAIL POSTS**

- **Material**: Wood
- **Grade**: Visual grade #1
- **Species**: Southern pine
- **Sizes used**: 8” x 8”
- **Quantity**: 64 bf
- **Drying method**: Kiln
- **Preservative treatment**: ACQ

**GUIDERAIL CURB**

- **Material**: Wood
- **Grade**: Visual grade #1
- **Species**: Southern pine
- **Size**: 6” x 12”
- **Quantity**: 360 bf
- **Preservative Treatment**: ACQ

**GUIDERAIL**

- **Material**: Wood
- **Grade**: Visual grade #1
- **Species**: Southern pine
- **Size**: 8” x 10”
- **Quantity**: 400 bf
- **Preservative treatment**: ACQ

**STRESSING STEEL**

- **Grade**: GR157
- **Manufacturer**: Dywidag Systems
- **Bar Diameter**: 5/8”
- **Coating**: Galvanized
- **Quantity**: 14 @ 31'-0"
- **Bearing plate size**: 9” x 11”

# FUNDING SOURCES:

USDA Forest Service: $50,000; Balance of funding from Richland County gasoline tax funds.

# LOCAL CONTACT:

Thomas E. Beck, P.E., P.S.
Richland County Engineer
77 N. Mulberry St.
Mansfield, OH 44902
Phone: 419-774-5591

Information provided by the Richland County Engineer.

WIT Program Proposal Number: NA-12-96
Federal Grant Identifier: NA-96-0117

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