Type: Stress-laminated deck
County: Ravalli
Owner: Ravalli County
Spans over: West Fork Bass Creek
Bridge length: 22'-0"
Roadway width: 23'-5 1/2"

**Directions:** From the intersection of US 93 and Bass Creek Road take Bass Creek Road approximately 1000 feet to the intersection of Bass Creek Road and Hoblitt Lane. Take Hoblitt Lane approximately 500 feet to the bridge site.
Number of Spans: 1
Out-to-out length: 22'-0''
Center-of-bearing length: n/a
Skew: 0 degrees
Number of lanes: 2
Out-to-out width: 24'-0''
Rail-to-rail width: 23'-5 1/2''
Superstructure square footage (assumes 22'-0'' span by 24'-0'' wide): 528

Design load: HS-20
Dead load: Approx. 60 lbs/sq ft
Design by: W. L. Higginbotham
Abutment: Existing concrete retaining walls cut off at bearing elevation.

Total project cost: $16,649
Total superstructure cost: $10,497
Total superstructure cost /sq. ft.: $19.88

DECK
Material: Wood
Species: Coastal Douglas-fir
Allowable bending stress: 1450 psi
Sizes used: 6'' x 12'' x 16', 19', & 22'
laminations (see Plan View detail on page 3)
Preservative treatment: Pentachlorophenol

BEAMS/STRINGERS (none)

GUIDERAIL CURB (none)

GUIDERAIL (bridge only)
Material: Steel
Size: Single layer, 12 gauge w-beam

GUIDERAIL POSTS
Material: Steel
Sizes used: w6x12

PRESTRESSING (see Deck Detail on page 3)
Strand: 2-1/2'' diameter prestress strand
Anchorage: Prestressing chucks
Bearing system: Longitudinal angles
Anchorage system: Steel bridge rail posts

LOCAL IMPACT: This bridge carries Hoblitt Lane, County Road No. 1401, over the West Fork of Bass Creek. The road is used by school buses, mail delivery vehicles, ranch equipment, and local residents.

BRIDGE PERFORMANCE: The original bridge was 16 feet long and 16 feet wide (out-to-out). The wingwalls of the existing concrete abutments were cut off horizontally at the bearing seat elevation. A 22 foot long by 24 foot wide stressed timber deck was placed on the varying width and length abutments. The deck laminations are stressed together with a series of 2-1/2'' diameter prestressing strands located above and below the deck. The top strand is buried in a 2'' thick asphalt pavement.

FUNDING SOURCES: USDA Forest Service: $7,362; Balance of funding from Ravalli County, Montana.

LOCAL CONTACT: W. L. Higginbotham
244 Fairgrounds Road
Hamilton, MT 59840
Phone: 406-363-2733

Information provided by Merv Eriksson, USDA Forest Service

WIT Program Proposal Number: R01-004-92-VEH
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October 2001
DECK DETAIL

PLAN VIEW DETAIL

22' Span

16' Span

Roadway Centerline

PLAN VIEW DETAIL

DECK DETAIL

Single layer W-Beam Rail with Reflectorized Washer.

W6 x 12 Rail Post 3' - 10 1/2" Post Spacing

3" x 4" x 3/8" Angle with 4" Leg Vertical

1/2" Prestress Strand

6" x 12" Longitudinal Deck

Prestress Chucks Two Per Post