

## Structure Inventory and Appraisal

Bridge ID: HANOVER-129431 Official SR: 80.4 SD/FO: Not Deficient or Obsolete FHWA No.: 129431 Unofficial SR: 80.4 SD/FO: Not Deficient or Obsolete

IDENTIFICATION 7 Facility Carried: 170TH ST 5B Rte. Signing Prefix:

1 - MAINLINE 5C Level of Service: 5D Inventory Route: 00000

City: RURAL 3 County: 024 - Crawford 084402002 9 Location:

0 - NOT APPLICABLE 5E Directional Suffix: 6 Feature Intersected: EMIGRANT CREEK

2 District: Garage: 000 98 Border Bridge Code: % Responsibility: 99 Border Bridge No.:

STRUCTURE TYPE AND MATERIALS

43A Main Span 3 - Steel

43B Main Span Design: 02 - Stringer/Multi-beam or Girder

45 No. Spans Main Unit: 1 44A Appr. Span 000 - NA 44B Appr. Span Design: 000 - NA

Far 46 No. of Appr. Spans: Near 0

1209.6 sq. ft.

24 ft

107 Deck Type: 8 - Wood or Timber 108A Wearing Surface: 8 - Gravel 108B Membrane: 0 - None 108C Deck Protection: 0 - None

GEOMETRIC DATA

48 Length Max Span: 48 ft 49 Structure Length: 34 Skew:

50B Curb/Sdwk Width R: Oft. 50A Curb/Sdwk Width L: 0 ft. 51 Width Curb to Curb: 24.2 ft. 25.2 ft. 52 Width Out to Out:

(w/ Shoulders)

32 Appr. Roadway width:

Deck Area:

33 Median: 0 - No median 35 Structure Flared: 00 - No flare 10 Vertical Clearance: 99'99" 47 Horiz. Clearance: 53 Min. Vert. Clearance Over: 99'99' 54B Min. Vert. Underclearance: 00'00" 55 Min. Lat. Underclearance R: 00'00" 56 Min. Lat. Underclearance L: 00'00"

NAVIGATION DATA

0 - No navigation control on waterway (bridge permit not required)

111 Pier Protection:

38 Navigation Control:

39 Vertical Clearance: 00'00" 40 Horiz. Clearance:

16 Latitude: 42.07245177 17 Longitude: -95.53722145

FRA No. (if RR Bridge):

Mile Post:

INSPECTION 90 Inspection Date: 05/08/2014

Inspection Type: N/A 05/08/2016 Next Routine Insp Date: 91 Frequency:

Inspection Agency: 5 - Consultant Inspection Group: Crawford County

Next Insp Type:

Regular

93A FC Inspection Date:

92A FC Frequency: Next FC Insp.: NA

93B UW Inspection Date:

92B UW Frequency: Next UW Insp.: NA

93C SI Date:

0

92C SI Frequency: Next Spec. Insp.:

Other Non-NBI Date:

Other Non-NBI Freq.: Next Other Insp.: NA

CONDITION

58 Deck: 8 - Very Good Condition (no problems noted) 59 Super: 7 - Good Condition (some minor problems) 8 - Very Good Condition (no problems noted)

61 Channel/Channel Prot.: 8 - Banks are protected

62 Culvert N - Not Applicable

APPRAISAL

67 Str. Evaluation: 5 - Somewhat better than minimum adequacy

68 Deck Geometry: 6 - Equal to present minimum criteria

69 Underclear Vert & Horiz: N - Not applicable

71 Waterway Adequacy: 8 - Bridge Above Approaches 72 Approach Alignment: 8 - Equal to present desirable criteria

36A Bridge Rail: 0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED. 36B Transition: 0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED 36C Approach Rail: 0 - DOES NOT MEET CURRENT SAFETY STANDARDS. OR IS NOT THERE AND IS NEEDED 36D Approach Rail Ends: 0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED

113 Scour Critical: 8 - Stable - Excellent Condition

LOAD RATING AND POSTING

31 Design Load: 0 - Unknown

63 Rating Method: 2 - Allowable Stress (AS) reported in english tons using HS-20 loading.

64 Operating Rating:

65 Rating Method: 2 - Allowable Stress (AS) reported in english tons using HS-20 loading.

66 Inventory Rating:

70 Postina: 5 - Equal to or above legal loads

41 Posting Status: A - Open

AGE AND SERVICE

2000 0 27 Year Built: Design No.:

106 Year Reconstructed: 0 42A Type of Service on: 1 - Highway 42B Type of Service Under: 5 - Waterway

28A Lanes on: 2 28B Lanes under: 29 ADT: 30 Year of ADT: 2012 109 Truck ADT: 0 % Speed Limit: 55

19 Detour Length: 4 mi

CLASSIFICATION

112 NBIS Length:

26 Functional Class: 09 - Rural - Local 100 STRAHNET: 0 - Not a defense highway 101 Parallel Structure: N - No parallel structure 102 Direction of Traffic: 2 - 2-way traffic

22 Owner: 02 - County Highway Agency 21 Custodian:

02 - County Highway Agency 37 Historical Significance: 5 - Not eligible

75A Type of Work Proposed:

75B Work Done by:

DL to stringer:  $\rho/f$ Chravel: 10psf(39/12) = 32.5p/f 3x/2(7op) 12.5(39/12) = 40.6 p/f 4x/6(8fm)  $2(\frac{1}{12})50pof(31/12) = 27.1 p/f$ half deels 100.2p/f.

10