

# STRUCTURE INSPECTION, INVENTORY and APPRAISAL SHEET

Vermont Agency of Transportation ~ Structures Section ~ Bridge Management and Inspection Unit

Inspection Report for : **E. MONTPELIER** Bridge No.: **00021** District: **7**  
Located on: **C3031 over KINGSBURY BR WINOOSKI** approximately **0.01 MI TO JCT W C3** Owner: **TOWN-OWNED**

## CONDITION

Deck Rating: **8 VERY GOOD**  
Superstructure Rating: **8 VERY GOOD**  
Substructure Rating: **6 SATISFACTORY**  
Channel Rating: **6 SATISFACTORY**  
Culvert Rating: **N NOT APPLICABLE**  
Federal Str. Number: **101207002112071**  
Federal Sufficiency Rating: **68.5**  
Deficiency Status of Structure: **ND**

## STRUCTURE TYPE and MATERIALS

Bridge Type: **PRESTRESS DOUBLE TEE**  
Number of Approach Spans: **0000** Number of Main Spans: **001**  
Kind of Material and/or Design: **5 PRESTRESSED CONCRETE**  
Deck Structure Type: **2 CONCRETE PANELS**  
Type of Wearing Surface: **0 NOT APPLICABLE**  
Type of Membrane: **0 NONE**  
Deck Protection: **0 NONE**

## AGE and SERVICE

Year Built: **1919** Year Reconstructed: **1979**  
Service On: **1 HIGHWAY**  
Service Under: **5 WATERWAY**  
Lanes On the Structure: **01**  
Lanes Under the Structure: **00**  
Bypass, Detour Length (miles): **99**  
ADT: **000030** % Truck ADT: **02**  
Year of ADT: **2007**

## APPRAISAL \*AS COMPARED TO FEDERAL STANDARDS

Bridge Railings: **1 MEETS CURRENT STANDARD**  
Transitions: **1 MEETS CURRENT STANDARD**  
Approach Guardrail: **1 MEETS CURRENT STANDARD**  
Approach Guardrail Ends: **1 MEETS CURRENT STANDARD**  
Structural Evaluation: **6 EQUAL TO MINIMUM CRITERIA**  
Deck Geometry: **6 EQUAL TO MINIMUM CRITERIA**  
Underclearances Vertical and Horizontal: **N NOT APPLICABLE**  
  
Waterway Adequacy: **5 OCCASIONAL OVERTOPPING OF BRIDGE & ROADWAY WITH SIGNIFICANT TRAFFIC DELAYS**  
Approach Roadway Alignment: **8 EQUAL TO DESIRABLE CRITERIA**  
  
Scour Critical Bridges: **3 SCOUR CRITICAL**

## GEOMETRIC DATA

Length of Maximum Span (ft): **0038**  
Structure Length (ft): **000040**  
Lt Curb/Sidewalk Width (ft): **0**  
Rt Curb/Sidewalk Width (ft): **0**  
Bridge Rdwy Width Curb-to-Curb (ft): **14.2**  
Deck Width Out-to-Out (ft): **15**  
Appr. Roadway Width (ft): **014**  
Skew: **00**  
Bridge Median: **0 NO MEDIAN**  
Min Vertical Clr Over (ft): **99 FT 99 IN**  
Feature Under: **FEATURE NOT A HIGHWAY OR RAILROAD**  
Min Vertical Underclr (ft): **00 FT 00 IN**

## DESIGN VEHICLE, RATING and POSTING

Load Rating Method (Inv): **0 NO RATING ANALYSIS PERFORMED**  
Posting Status: **A OPEN, NO RESTRICTION**  
Bridge Posting: **5 NO POSTING REQUIRED**  
Load Posting: **10 NO LOAD POSTING SIGNS ARE NEEDED**  
Posted Vehicle: **POSTING NOT REQUIRED**  
Posted Weight (tons):  
Design Load: **4 H 20**

## INSPECTION

X-Ref. Route:  
Insp. Date: **082017** Insp. Freq. (months): **24** X-Ref. BrNum:

## INSPECTION SUMMARY and NEEDS

8/15/2017 Structure is in good condition. Transverse crack at the top of abutment #2 Should be monitored for sign of further movement. Abutment #1 could use some mortar work. Brush on both banks should be cut back. ~FRE/MAC

08/10/15 Abutment 1 could use some minor chinking. Stone abutment should be monitored during high water events. MJK SP

08/5/13 Minor voids in abutment 1 laid up stones. Monitor during high water events. MJK SMP

05/12/11 Satisfactory to good condition, during high water events abutments should be monitor for scouring especially about 1 laid up stones

04/28/09 Bridge is in satisfactory to good condition. Some of the approach guard rail posts need replacing. The up stream banks have erosion problems but there is no threat to the bridge yet. DCP