HistoricBridges.org - National Bridge Inventory Data Sheet

The National Bridge Inventory contains data submitted by state transportion departments to the Federal Highway Administration in coded format.

Form Interface Design: www.historicbridges.org. Data Conversion Assistance By www.bridgehunter.com. None of the involved parties make any guarantee of accuracy.

Basic Information							40-02-05 =	075-42-31 = -
Pennsylvania [42] Chester County [029]			East Brandywine [20864] NEAR DOWLIN 20F10				40.034722	75.708611
10587 Highway agency district 6			Owner State Highway Agency [01] Maintenance responsibility				State Highway Age	ency [01]
Route 0	e 0 DOWLINS FORGE RD.			Toll On free road [3] Features intersected EAST BR B				K
Design - main Steel [3] Stringer/Multi	i-beam or girder [02]	Design - approach Other [[00]	Kilometerpoint Year built 194 Skew angle 36 Historical signifi	0 Structure F	constructed N/A	[0000] the NRHP. [5]	
Total length 31.4 m = 1	103.0 ft Leng	gth of maximum spa	n 15.2 m = 49.9 ft	Deck width, or	ut-to-out 8.5 m = 27.9	ft Bridge roa	dway width, curb-to-c	urb 7.3 m = 24.0 ft
Inventory Route, Total F	Horizontal Clearance	7.3 m = 24.0 ft	Curb or sidewalk wid	dth - left 0 m	= 0.0 ft	Curb or sid	ewalk width - right	0 m = 0.0 ft
Deck structure type	Co	ncrete Cast-in-Plac	e [1]					
Type of wearing surface	Bit	uminous [6]						
Deck protection								
Type of membrane/wear	ring surface							
Weight Limits								
Bypass, detour length	Wethou to determine inventory running		Load Factor(LF) [1]		Inventory rating	32 metric ton =	35.2 tons	
0.8 km = 0.5 mi Method to determine		ine operating rating Load Factor(LF) [1]			Operating rating	54 metric ton =	59.4 tons	
Bridge posting Equal to or above legal loads [5]				Design Load M 18 / H 20 [4]				

Functional Details								
Average Daily Traffic 2636 Average daily tr	ruck traffi 4 % Year 2011 Future average daily traffic 3231 Year 2032							
Road classification Collector (Urban) [17]	Lanes on structure 2 Approach roadway width 7.3 m = 24.0 ft							
Type of service on bridge Highway [1]	Direction of traffic 2 - way traffic [2] Bridge median							
Parallel structure designation No parallel structure	e exists. [N]							
Type of service under bridge Waterway [5]	Lanes under structure 0 Navigation control							
Navigation vertical clearanc 0 = N/A	Navigation horizontal clearance 0 = N/A							
Minimum navigation vertical clearance, vertical lift bridge Minimum vertical clearance over bridge roadway 99.99 m = 328.1 ft								
Minimum lateral underclearance reference feature F	eature not a highway or railroad [N]							
Minimum lateral underclearance on right 0 = N/A Minimum lateral underclearance on left 0 = N/A								
Minimum Vertical Underclearance 0 = N/A	Minimum vertical underclearance reference feature Feature not a highway or railroad [N]							
Appraisal ratings - underclearances N/A [N]								
Repair and Replacement Plans								
Type of work to be performed	Work done by Work to be done by contract [1]							
Other structural work, including hydraulic replacements. [38]	Bridge improvement cost 0 Roadway improvement cost 0							
replacements. [50]	Length of structure improvement 30 m = 98.4 ft Total project cost 0							
	Year of improvement cost estimate							
	Border bridge - state Border bridge - percent responsibility of other state							
	Border bridge - structure number							

Inspection and Sufficiency									
Structure status Open, no res	Appraisal ratings - structural	Somewhat better than minimum adequacy to tolerate being left in place as is [5]							
Condition ratings - superstructur	Satisfactory [6]	Appraisal ratings - roadway alignment	Better than p	riteria [7]					
Condition ratings - substructure	Fair [5]	Appraisal ratings -	Basically into	igh priority of replacement [2]					
Condition ratings - deck	Good [7]	deck geometry							
Scour	Bridge is scour critical; bridge	Bridge is scour critical; bridge foundations determined to be unstable. [3]							
Channel and channel protection	Bank and embankment protected debris are in the channel. [4]	Bank and embankment protection is severely undermined. River control devices have severe damage. Large deposits of debris are in the channel. [4]							
Appraisal ratings - water adequac	Superior to present desirable	Superior to present desirable criteria [9]			Functionally obsolete [2]				
Pier or abutment protection					65.4				
Culverts Not applicable. Used	if structure is not a culvert. [N]								
Traffic safety features - railings									
Traffic safety features - transition									
Traffic safety features - approach									
Traffic safety features - approach	h guardrail ends								
Inspection date May 2011 [0	Designated inspe	ection frequency 24	Mon	nths					
Underwater inspection Every two years [Y24]		Underwater inspec	ction date	May 2010 [0510	סן				
Fracture critical inspection	Not needed [N]	Fracture critical in:	spection date						
Other special inspection	Not needed [N]	ded [N] Other special inspection date							