

NBI Info for Non State Owned Bridges

**National Bridge Inspection Standards (NBIS)
BRIDGE INSPECTION REPORT
(Highway over Waterway or Railroad)
Delaware Department of Transportation
Bridge Management Section**

(8) Bridge ID No. _____
 (43A&B) Bridge Type: (A) _____ (B) _____
 (9) Location: _____
 (11) Kilometer Point: _____
 (6) Features Intersected: _____
 (27) Year Built: _____
 (70) Bridge Posted: Yes - No
 Type of Inspection: Visual - Hands-on

(90) Inspection Date: _____
 Inspected By: _____ / ____ / ____
 (Tm Ldr)
 Reviewed By: _____ (PE)
 (29) ADT/Year/%Trucks: _____ / ____ / ____ %
 (106) Year Reconstructed: _____
 GPS: Yes - No

(Item 58) OVERALL DECK CONDITION RATING: N 9 8 7 6 5 4 3 2 1 0

Comments: _____

<u>Deck Elements:</u>	<u>Rating</u> (Good/Fair/Poor/Not Applicable)				<u>Remarks</u>
- Wearing Surface	G	F	P	N/A	_____
- Deck - Topside	G	F	P	N/A	_____
- Deck - Soffit	G	F	P	N/A	_____
- SIP Forms	G	F	P	N/A	_____
- Curbs	G	F	P	N/A	_____
- Medians	G	F	P	N/A	_____
- Parapets	G	F	P	N/A	_____
- Bridge Railing	G	F	P	N/A	_____
- Drainage System	G	F	P	N/A	_____
- Lighting System	G	F	P	N/A	_____
- Utilities	G	F	P	N/A	_____
- _____	G	F	P	N/A	_____
- _____	G	F	P	N/A	_____

(Item 72) APPROACH ROADWAY ALIGNMENT APPRAISAL RATING: N 9 8 7 6 5 4 3 2 1 0

Comments: _____

<u>Approach Elements</u>	<u>Rating</u>			<u>Remarks</u>	
- Pavement Condition	G	F	P	N/A	_____
- Relief Joint	G	F	P	N/A	_____
- Vertical Alignment	G	F	P	N/A	_____
- Horizontal Alignment	G	F	P	N/A	_____
- Posted Speed Limit	G	F	P	N/A	_____
- Speed Limit Reduction	None	Minor	Substantial		_____

(Item 59)

OVERALL SUPERSTRUCTURE CONDITON RATING: N 9 8 7 6 5 4 3 2 1 0

Comments: _____

<u>Superstructure Elements</u>	<u>Rating</u>				<u>Remarks</u>
- Stringers	G	F	P	N/A	_____
- Floorbeams	G	F	P	N/A	_____
- Diaphragms	G	F	P	N/A	_____
- Girders	G	F	P	N/A	_____
- Trusses – General	G	F	P	N/A	_____
Upper Chord	G	F	P	N/A	_____
Lower Chord	G	F	P	N/A	_____
Lateral Bracing	G	F	P	N/A	_____
Sway Bracing	G	F	P	N/A	_____
Portals	G	F	P	N/A	_____
- Arches	G	F	P	N/A	_____
- Cables	G	F	P	N/A	_____
- Bearing Devices	G	F	P	N/A	_____
- Connections	G	F	P	N/A	_____
- Welds	G	F	P	N/A	_____
- _____	G	F	P	N/A	_____
- _____	G	F	P	N/A	_____
- _____	G	F	P	N/A	_____
- Timber Decay					_____
- Concrete Deterioration					_____
- Steel Corrosion					_____
- Collision Damage					_____
- Live Load Deflection					_____
- Vibration					_____
- Member Alignment					_____
- Utilities					_____

- Paint Rating: A X N 9 8 7 6 5 4 3 2 1 0 (See page A-3 Appendix 'A' of the Bridge Management Manual)

(Item 60)

OVERALL SUBSTRUCTURE CONDITION RATING: N 9 8 7 6 5 4 3 2 1 0

Comments: _____

<u>Substructure Elements</u>	<u>Rating</u>				<u>Remarks</u>
- Abutments	G	F	P	N/A	_____
Piles	G	F	P	N/A	_____
Footing	G	F	P	N/A	_____
Breastwall	G	F	P	N/A	_____
Bearing Seat	G	F	P	N/A	_____
Backwall	G	F	P	N/A	_____
Wingwalls	G	F	P	N/A	_____
- Piers and Bents	G	F	P	N/A	_____
Piles	G	F	P	N/A	_____
Footing	G	F	P	N/A	_____
Column(s)	G	F	P	N/A	_____
Cap	G	F	P	N/A	_____
Scour / Undermining					_____
Substructure Protection					_____
Settlement					_____

(Item 62) OVERALL CULVERT CONDITION RATING: N 9 8 7 6 5 4 3 2 1

Culvert Elements

Comments: _____

	<u>Rating</u>				<u>Remarks</u>
- Cell(s), Barrel(s)	G	F	P	N/A	_____
- Headwall(s)	G	F	P	N/A	_____
- Wingwalls	G	F	P	N/A	_____
- Apron	G	F	P	N/A	_____
- Railing	G	F	P	N/A	_____

(Item 61) OVERALL CHANNEL AND CHANNEL PROTECTION CONDITION RATING:

N 9 8 7 6 5 4 3 2 1 0

Comments: _____

<u>Channel Elements</u>					<u>Remarks</u>
- Channel					
Streambed (align., scour, etc)					_____
Embankment (vegetation, etc)					_____
Streamflow (velocity, etc)					_____
Drift and Debris					_____
	<u>Rating</u>				<u>Remarks</u>
Channel Protection	G	F	P	N/A	_____
Riprap	G	F	P	N/A	_____
Slope Protection	G	F	P	N/A	_____
Footing Aprons	G	F	P	N/A	_____
_____	G	F	P	N/A	_____
_____	G	F	P	N/A	_____

(Item 71) **WATERWAY ADEQUACY APPRAISAL RATING: N 9 8 7 6 5 4 3 2 1 0**

Comments: _____

Waterway Elements

Remarks

- Hydraulic Opening _____
- Freeboard _____
- Span _____

- Chance of Overtopping: Remote Slight Occasional Frequent
- Overtopping Delays: Insignificant Significant Severe

APPRAISAL RATINGS

(Item 68) **Deck Geometry Appraisal Rating: N 9 8 7 6 5 4 3 2 1 0**

(Item 69) **Underclearance Appraisal Rating : N 9 8 7 6 5 4 3 2 1 0**

(Item 72) **Approach Roadway Appraisal Rating: N 9 8 7 6 5 4 3 2 1 0**

(Item 113) **Scour Evaluation: N U T 9 8 7 6 5 4 3 2 1 0**

GEOMETRIC DATA

Structural Dimensions:

- (28) No. of Traffic Lanes _____; 1-way / 2-way
- (51) Curb-to-Curb Dimension: _____ (m)
- (52) Deck Width, Out-to-Out: _____ (m)
- (50) Curb of Sidewalk Width: _____ (m)
- (49) Structure Length : _____ (m)
- (53) Minimum Vertical Over Bridge Roadway: _____ (m)
- (54) Minimum Vertical Underclearance: _____ (m)
- (55) Minimum Lateral Underclearance Right: _____ (m)
- (56) Minimum Lateral Underclearance Left: _____ (m)
- (45) Number of Spans: _____
- (48) Length of Maximum Span: _____ (m)

BRIDGE SIGNING

- Speed Limit = _____ (km/H)
- Weight Restrictions = _____ (Tons)
- Posting Signs in Place = Yes - No
- Narrow Bridge Signs = Yes - No
- Vertical Clearance – Overhead _____ (m) ; Under _____ (m)

(Item 36A, B, C &D)

OVERALL TRAFFIC SAFETY REATURE CONDITION RATINGS

<u>Safety Feature Elements</u>	<u>Rating</u>			<u>Remarks</u>
(36A) Bridge Railing	G	F	P	N/A
(36B) Transitions	G	F	P	N/A
(36C) Approach guardrail	G	F	P	N/A
(36DA) Approach Guardrail Ends	G	F	P	N/A

BRIDGE MAINTENANCE REQUIRED

<u>Activity Description</u>	<u>Priority</u>
1. _____	()
2. _____	()
3. _____	()
4. _____	()
5. _____	()
6. _____	()

3/13/00

3/13/00