

## 2012 BNL MODEL BRIDGE CONTEST

### BRIDGE INSPECTION REPORT

**BRIDGE No:** \_\_\_\_\_ **STUDENT NAME:** \_\_\_\_\_

**SCHOOL:** \_\_\_\_\_ **DQ?:** \_\_\_\_\_

**BRIDGE MASS:** \_\_\_\_\_ gms. (25 gms max)

LOC	ITEM	CRITERIA	Q	DQ
1	Overall Length (L)	Max 400 mm (15.75 in)		
1	Width (W)	$25\text{mm (0.98 in)} \leq W \leq 80\text{ mm (3.15 in)}$		
1	Materials	3/32" (2.4 mm) square basswood, no paint or other material		
1	Symmetry	Bridge is symmetrical about transverse and longitudinal centerlines		
2	Span (S)	Min 300 mm (11.8 in)		
2	Clearance (C) at center above support surfaces	Min 50 mm (1.97 in)		
2	Height (H)	Max 200 mm (7.87 in)		
2	Load plane height (P)	$\leq 100\text{ mm (3.93 in)}$ above support surfaces		
3	Load Application Points	(mid span, 25 mm (0.98 in) to the right of center and 45 mm (1.77 in) to the left of center		
3	Load Application Clearance	Loading plate and rod can load at all 3 load points from above		
3	Road Bed Length	Min 250 mm (9.84 in)		
3	Horizontal Clearance	Standard Ping-Pong Ball, 38.1 mm (1.50 in) dia rolls freely without falling off or through roadbed when bed is tilted 20 degree from horizontal		
3	Other	Explanation:		