The Brooke Sign Calculations

Sign Size Height Length Total Area of Sign	8.33 3 25	feet feet sqft	
Wind Load on Sign Wind Load converted to PSF Weight of Sign	115 35 375	mph psf pounds	Exposure B
Total Wind Load on Sign Wind Load is resisted by six 1/2" Grade 5 bolts Wind Load per Bolt Shear Strength of one 1/2" Diameter Bolt Tensile Strength of one 1/2" Diameter Bolt	875 146 12100 17000	pounds pounds pounds	
Shear Strength of 6 Grade 5 Bolts Tensile Strength of 6 Grade 5 Bolts	72600 102000	pounds pounds	

Both Shear and Tensile Strength of Grade 5 Bolts exceeds applied load and will support the sign