

Swaeney, Vermont 11-21-08

Lifting Calculations

Approximate Lifting weight of assembled  
bridge 39.0 K

Divide weight into four lifting points = 9.75 K

Floor beam connected to truss = 10 Fcs,  $\frac{7}{8}$ "  $\phi$   
A325 bolts.

shear capacity of  $\frac{7}{8}$ "  $\phi$  bolt =  $(0.601W^2)(15Ksi)$   
= 9.0 K/Bolt

Connection good for  $(9.0K/Bolt)(10 Bolts)$   
= 90 K > 9.75 K, OK

*[Signature]*  
11/21/08