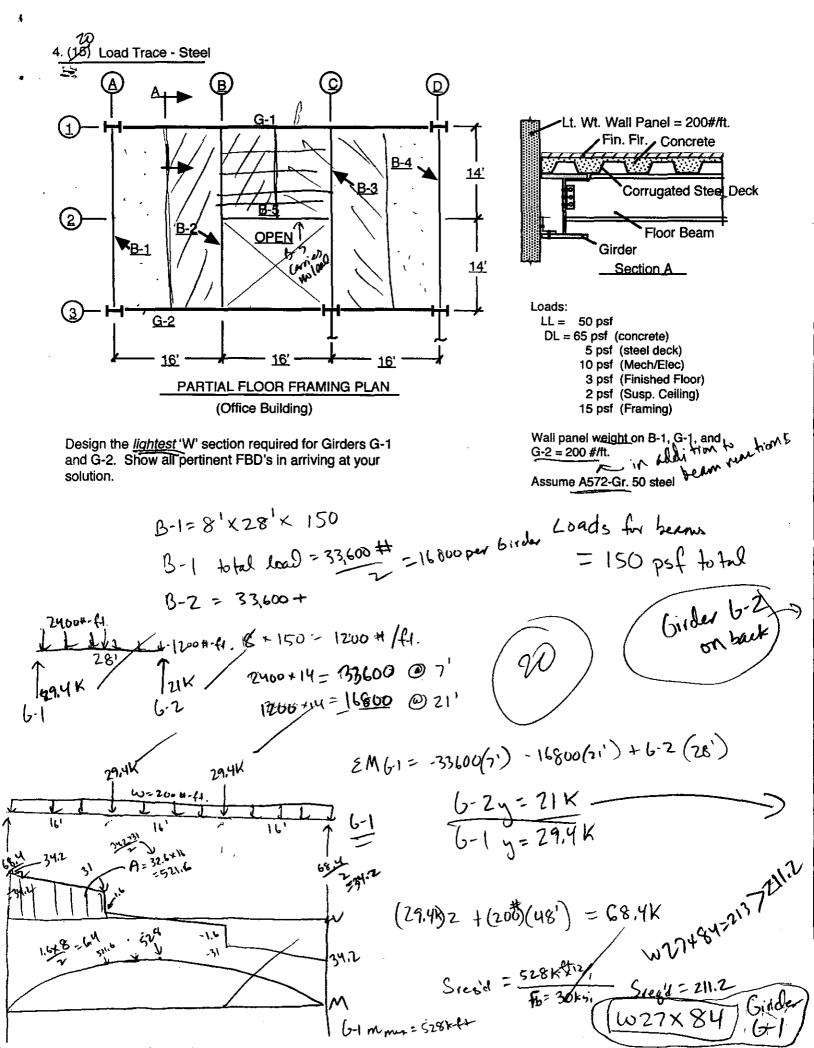


An outdoor deck in a mountainous region is supported by No. 2 grade Hem-Fir.

The joists, spaced at 16" o.c., are cantilevered 2'-6" at one end. If the snow load is 50psf and the dead load 10psf, determine the joist size necessary to satisfy the bending stress requirement.

1699,17= Mmany

10



 $21+21+(200^{4})(48)$ 21k 21k 32+200+64k 21k 32+200+64k 493-6 49

 $S_{resid} = \frac{193.6 \times 121}{F_{b=30}} = \frac{1323.2}{30} = .77.44$

Fb= 30ksi

W21×44=81.6777.44

Girder Z

MSE W21×44

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1