

I did not find the cross-section of the counter A, because this counter is unnecessary as shown by the dead load giving a greater strain in it than the combined load.

I'm finding the cross-sections of the lower chords, which are also in tension. We use the formula $b = 10000 \left(1 + \frac{1}{2} \frac{g}{p}\right)$ found in Weyrauch Page 70. In this formula p and g are respectively the dead and total load per unit of length (ie) $p = 850$ lbs and $g = 4225$ lbs, hence