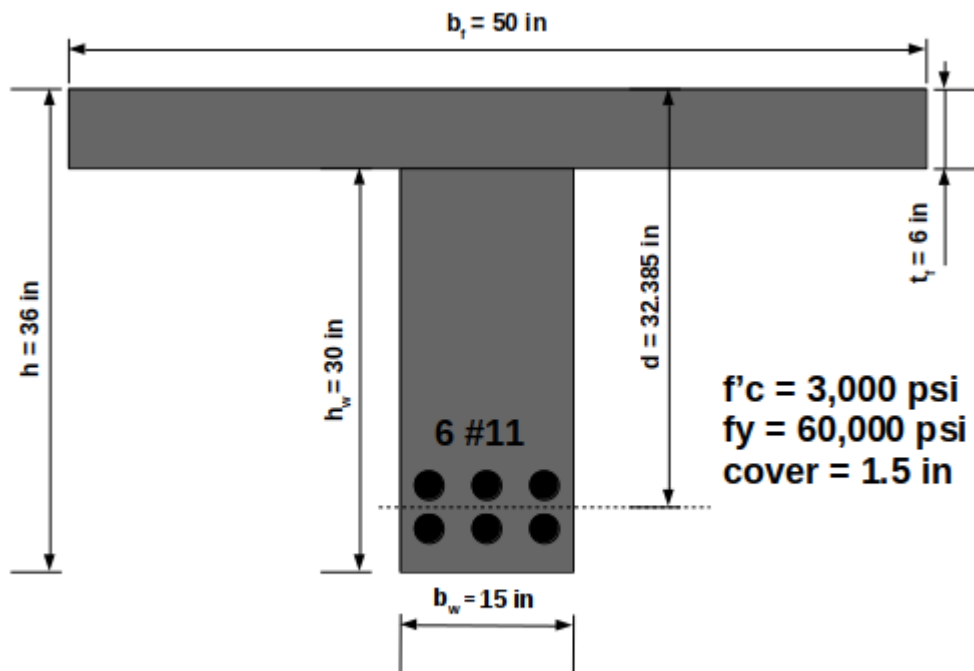


Date: 12<sup>th</sup> September 2019

Find the ultimate moment capacity ( $\Phi M_n$ ) for the reinforced concrete T beam with 2 rows of steel as shown below.



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**Answers (refer to solutions for detail)**

$$\Phi M_N = 1,271 \text{ kips-ft}$$