

FIGURE 3-3. Coarse finite element mesh for F1-5/8-3/8-10 (shallow beam to rigid column flange).

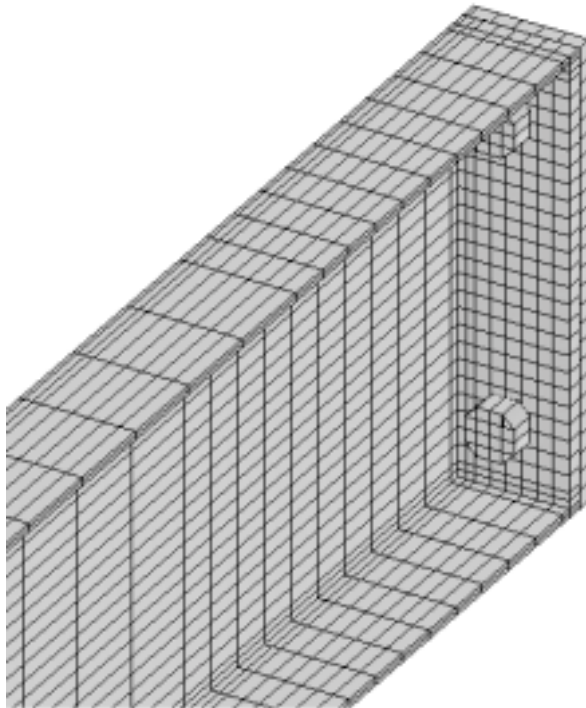


FIGURE 3-4. Fine finite element mesh for F1-5/8-3/8-10 (shallow beam to rigid column flange).

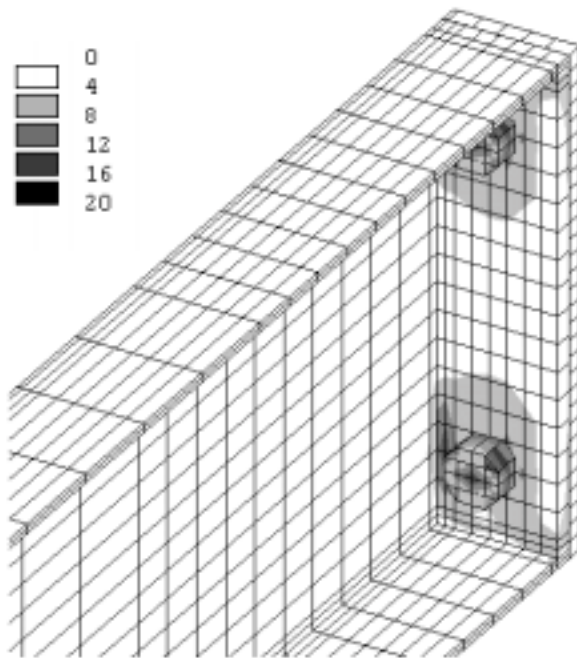


FIGURE 3-5. Von Mises stress (ksi) distribution around end-plate caused by bolt pretensioning for shallow beam.

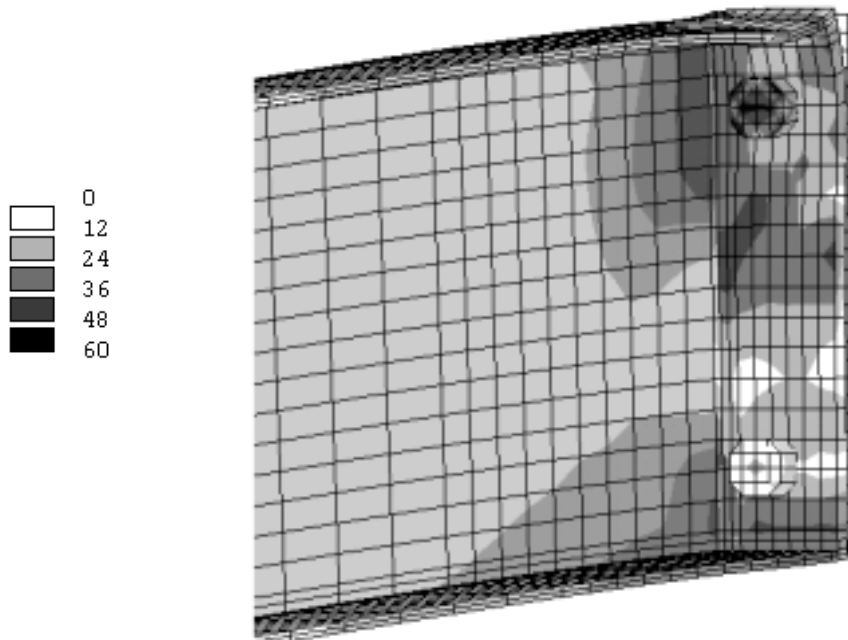


FIGURE 3-6. Von Mises stress (ksi) distribution at ultimate applied moment for shallow beam.

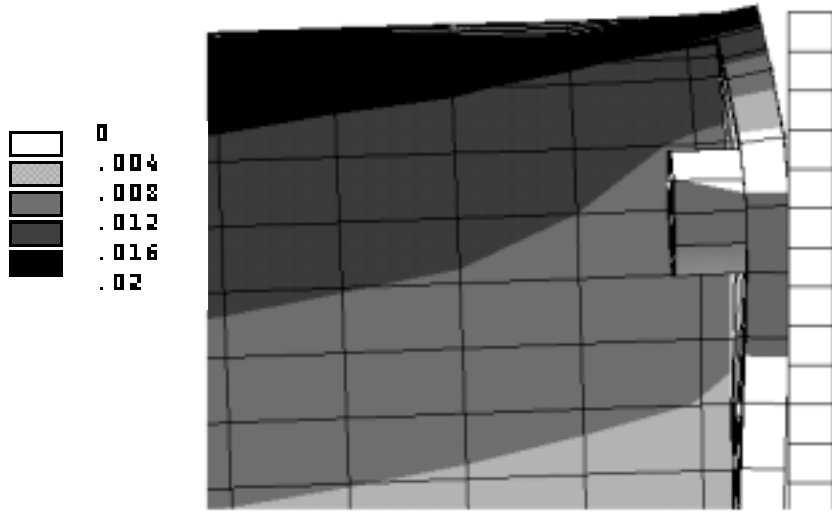


FIGURE 3-7. End-plate separation (inches) at ultimate applied moment for shallow beam.

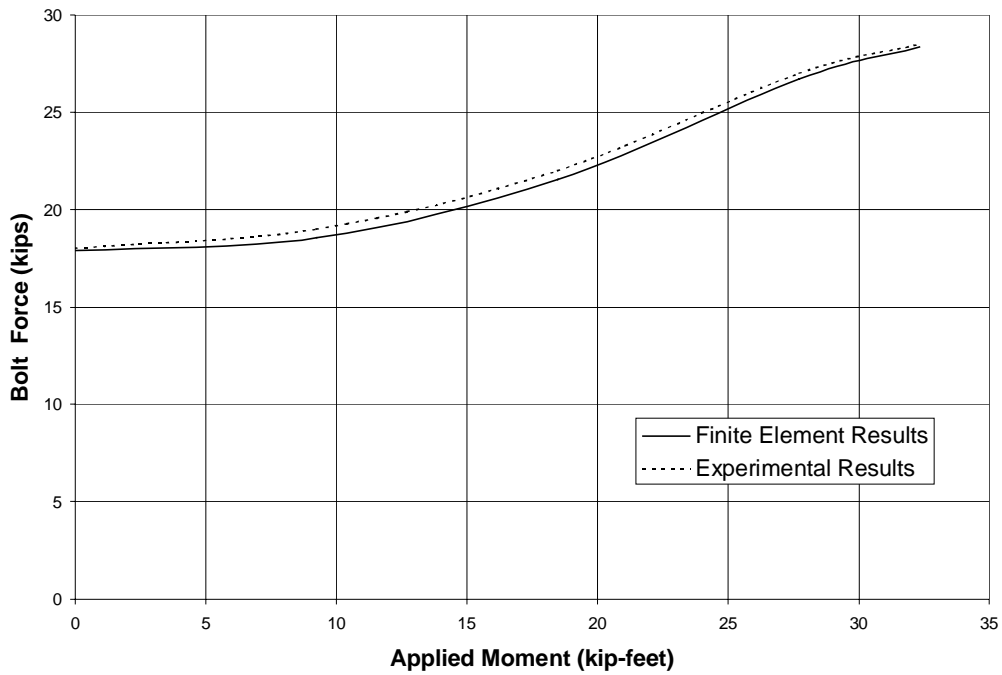


FIGURE 3-8. Bolt force vs. applied moment for shallow beam.