

Common Issues #2: Stair Issues

Example: Stair geometry and headroom issues

Issue: All builders have dealt with stair issues at some point in time and often routinely. 2D drawings, stair geometry code changes and other factors often obscure stair issues until it is too late. In the example below, the stair stringers

- A. Do not fit in the provided space between double beam at the top and bedroom doorway at the bottom. The maximum rise by code in this locality is $7\text{-}\frac{3}{4}$ ". With the overall rise of $10\text{' }3\text{-}\frac{7}{8}$ ", 16 risers = 7.74 " or right at the maximum. You can see how the beam needs to be one run over to accommodate but that beam is under roof loads above. This would go back to engineering to approve moving the beam, which impacts the hall/top of stairs



- B. There is clearly insufficient headroom. The dashed line in the image represents $6\text{'-}8$ " headroom. Had the TJIs been installed per the engineer's layout and THEN built the stairs, they would have been in for a huge headache, expense and work stoppage!

