

Bridge Design Details 9.3 January 2023

Center of Gravity of Prestressing Force Diagram

On multiple span continuous prestressed bridges, utilizing two-end stressing may be more economical. Use similar center of gravity (CG) diagram for both one and two-end stressing and dimension the location of the theoretical point of no movement in all cases. For additional details, see *Bridge Design Details*, 14.2 Longitudinal Section. Provide directions in the plans regarding stressing sequence assumed for design, using a note similar to the following: "NOTE: Two end stressing shall be performed." Or "NOTE: One end stressing shall be performed from Abutment X side."

Actual dimensions should be shown for single span bridges or bridges with equal length spans.





On bridges with variable span lengths or bridges with a radius, the span dimensions should be indicated as below. Girders on radius will have different lengths.



