

CatCurve

Tools for drawing catenary or hyperbolic curves.

3DMvcl2g

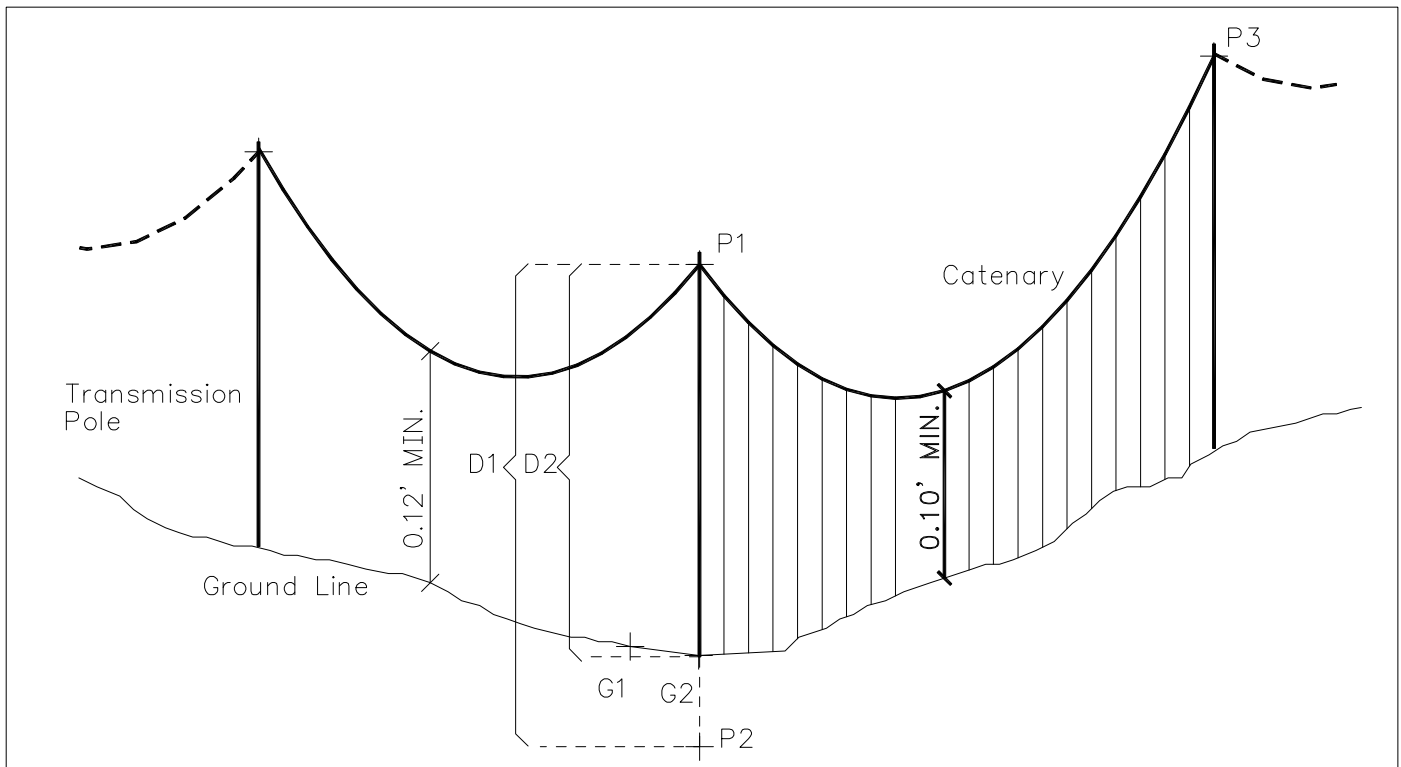


Catenary Sag Curve Ground Clearances

[3DMVcl2g] Calculates the minimum vertical clearance between two 3D polylines. Uses the same scale ratio of **1:1** vertical scale to horizontal scale.

[3Dmvl2g]

Select Catenary > (select)
Select Ground Line > (select)
Select Poleattr Block > (select)
Minimum Line-2-Gnd Clearance is:



Warning about UNITS and Calculations when Loading

When loading 3DCAT.LSP a warning is displayed if the Units setting is other than Decimal [2] because the formulas used assume whole units as equal to 1 foot. Otherwise curves may not match your original template.

OUTPUT to screen

Display on screen of several Autolisp variable names and their set values after a program function run is available by typing (VALUES) at the Drawing Editors Command: prompt.

Calculations of CAT and 3DCAT saved to ASCII file

The purpose for writing Y3/Sag values to a file was to verify that the results I was getting from 3DCAT.LSP were the same as CAT.LSP. I also have been trying to document my work in the form of an instructional manual with command line prompts and arguments.