

Creation of Alignment label with profile heights.

Template setting for Civil 3D

About

A common question is how to label an alignment with current profile height(s). To do this we can use one of the tools to put a point onto an alignment, when this alignment modifies the point will not move along with it.

Solution

Create a label style to use with an alignment.

Used version Civil 3D 2022, workflow suits with previous versions.

Workflow

Create a new label style using the Toolspace – Tab Settings, under Alignment – Label Styles – Station

Depending for purpose the following style can be applied for:

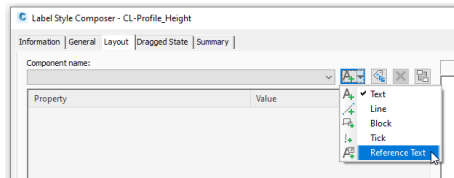
- Major station, Add height along alignment, with increments distance.
- Minor Station, Same as is Major, perhaps with different style.
- Geometry Point, Add height on alignment geometry points.
- Profile Geometry Point, Add height on alignment profile geometry points.

Settings label:

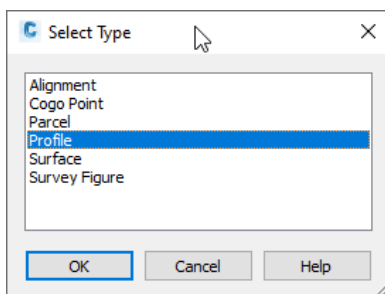
- Tab Information:
 - Define name for label, sample "CL-Profile_Height"
- Tab General:
 - Define preferred text style, behaviour and readable.
- Tab Layout:
 - Make sure that all pre-defined items are deleted.



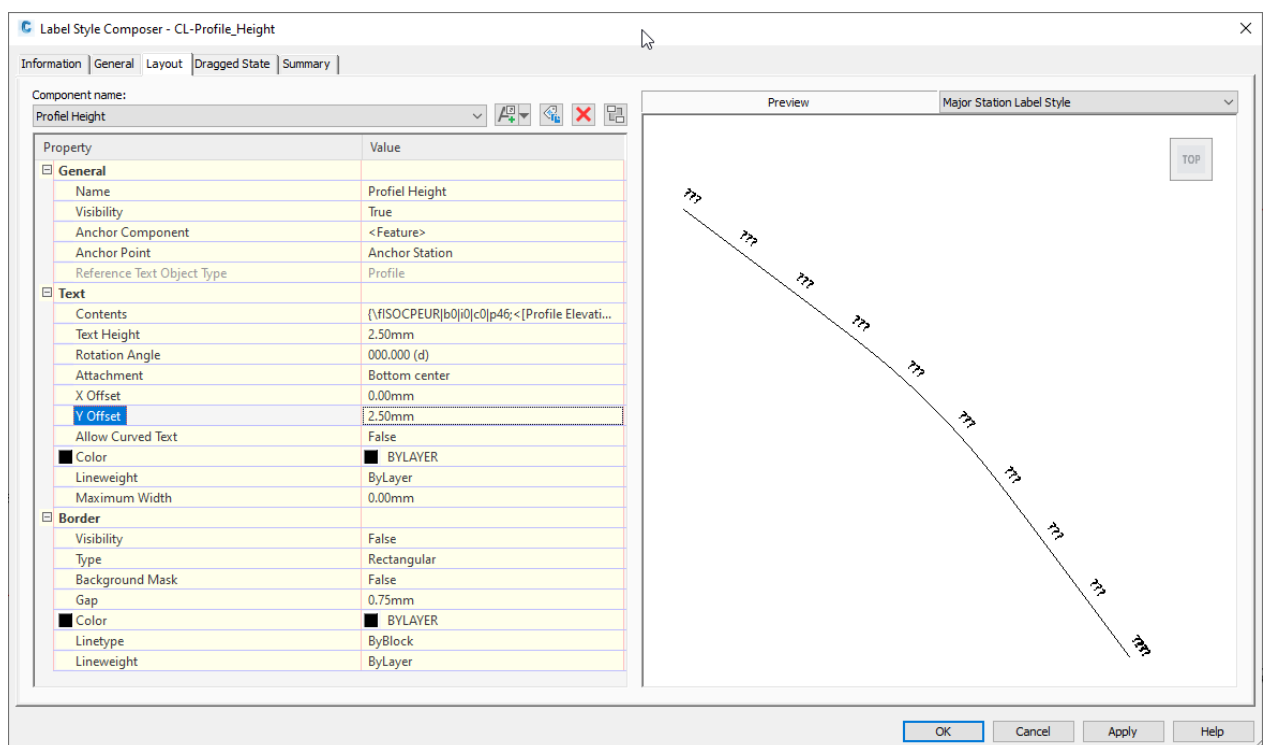
- Create new Component with option “Reference Text”



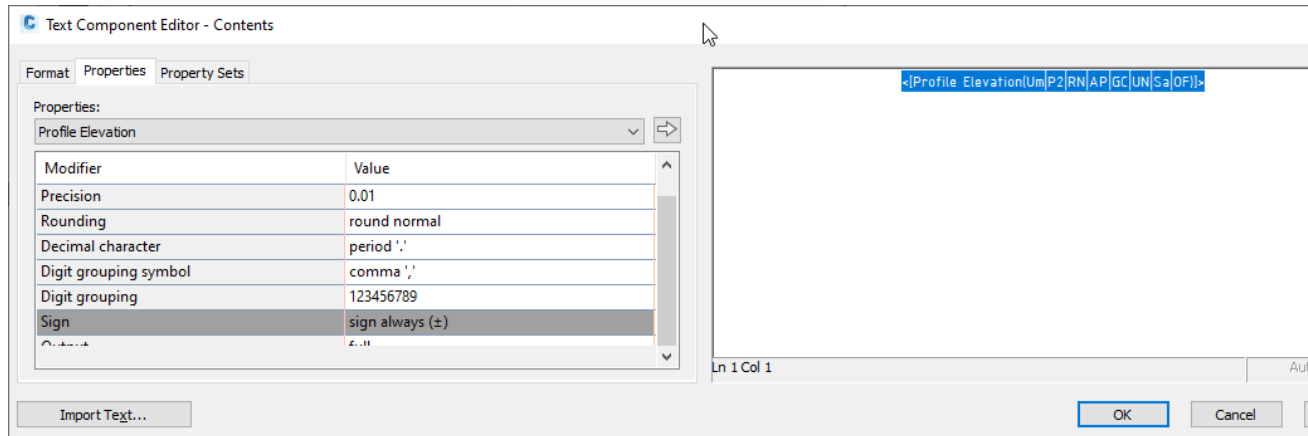
- Select type “Profile”



- Set values for:

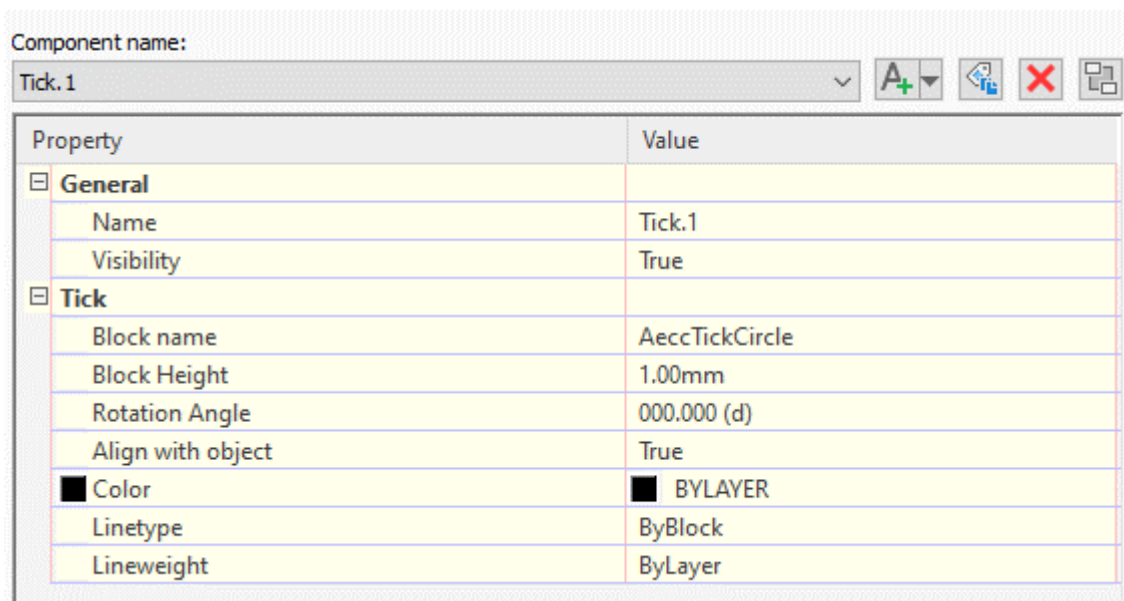


- Change Text component – line Contents with the following properties



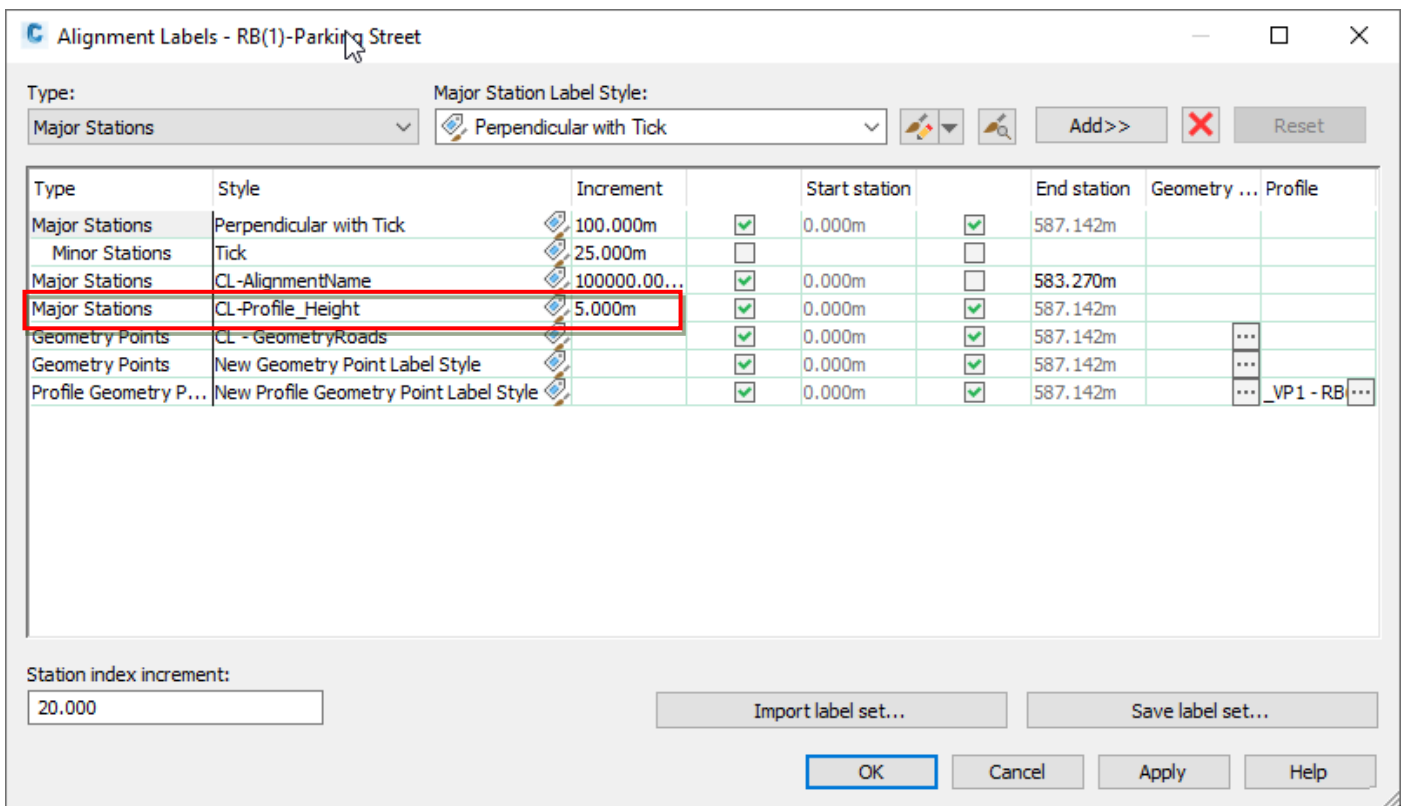
- Extra option:

Add “Tick” to make clearer where my point height is taken.

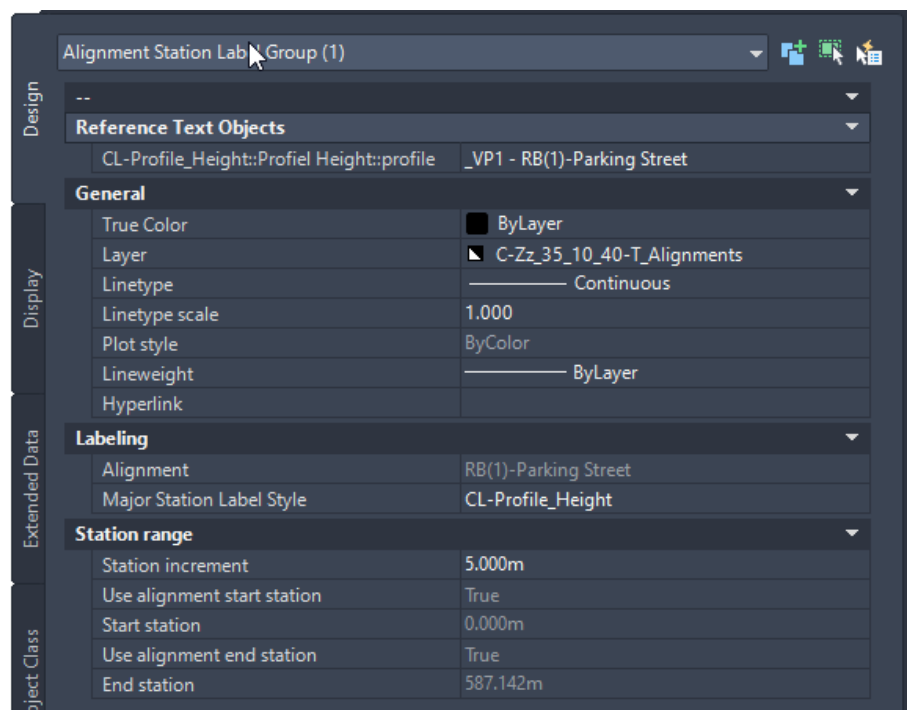


When the label is created, add the created style into your Alignment labels (set) of your alignment.





To apply the heights of the profile, you need to add the profile by changing the properties of the label. Select the profile in the “reference text objects”



Result

