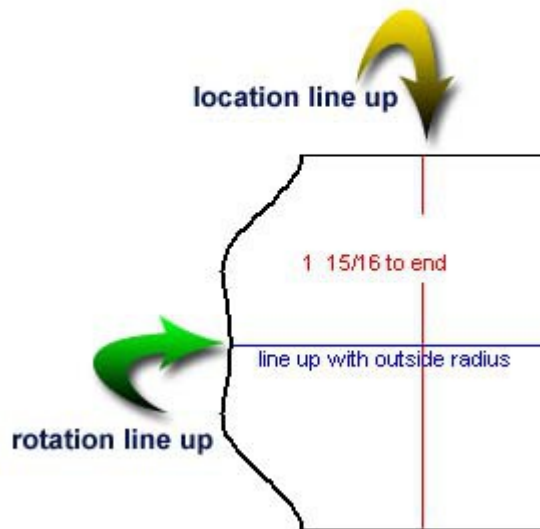


## Line up the templates

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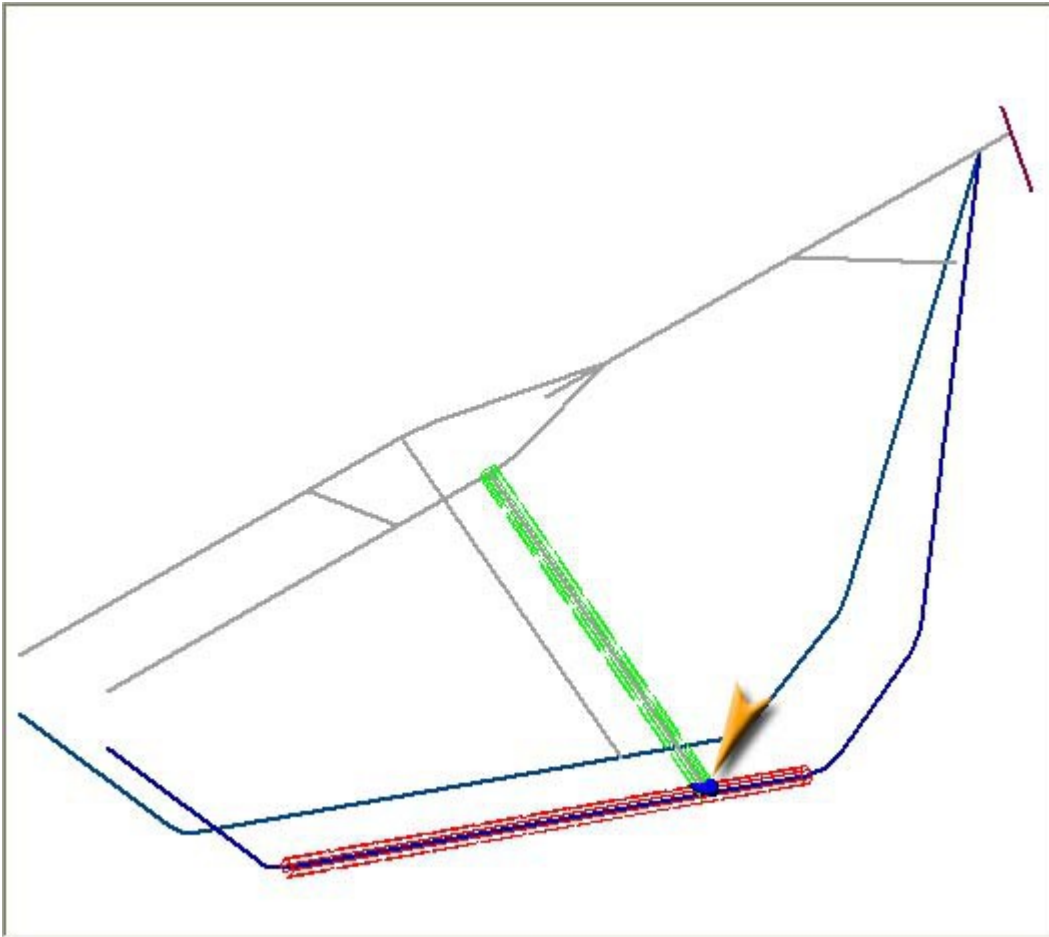
The templates have 2 calibration lines on them. One is for rotation alignment and the other is for location down the tube.



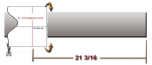
There are 3 different setups for the templates:

- straight tube, one end cut**
- straight tube, both ends cut**
- bent tube, either end cut**

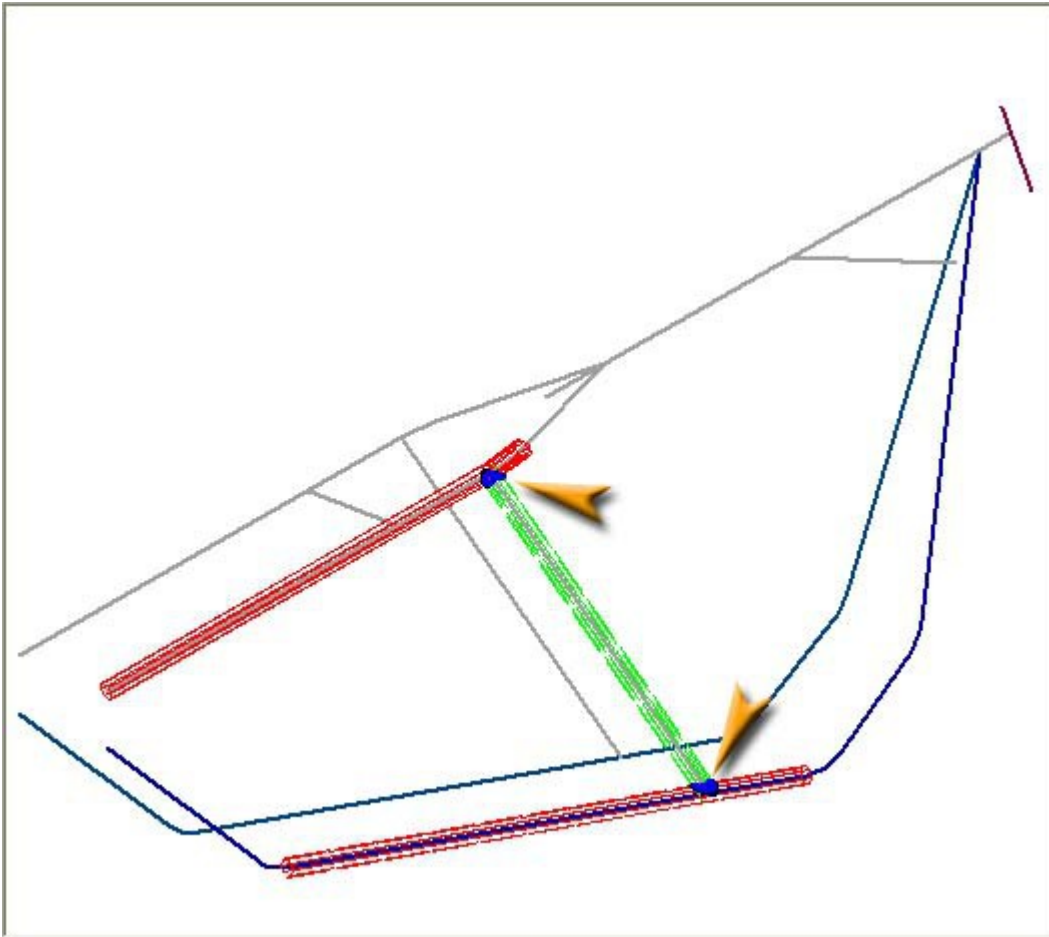
### 1) Straight Tube, One End Cut:



There is no rotary line up (blue line up line) and the location calibration (red line) needs to be placed the distance labeled from the opposite end. [21 3/16 in our case]

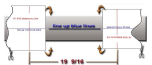


## 1) Straight Tube, Both Ends Cut:

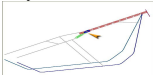


**NOTE: The above pic shows cutting on both ends of the tube in the same picture. This is shown in the software as one end at a time.**

Line the rotary lines down the tube (blue line) and the location calibration (red line) needs to be placed at the distanced labeled from each other. [19 9/16 in our case]

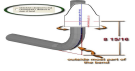


## 1) Bent Tube, Either End Cut:



Line the rotary line with the out-most radius of the arc as shown in the following picture. The location line will depend on the check-box value of "**Distance to End or Distance to Perp**".

If it is **Distance to Perp** then you will come off of the Perp (apex for bends under 90 degrees) for the location line as shown in the following pic.



If it is **Distance to end** the you will come off the end of the tube as shown in the next pic.

