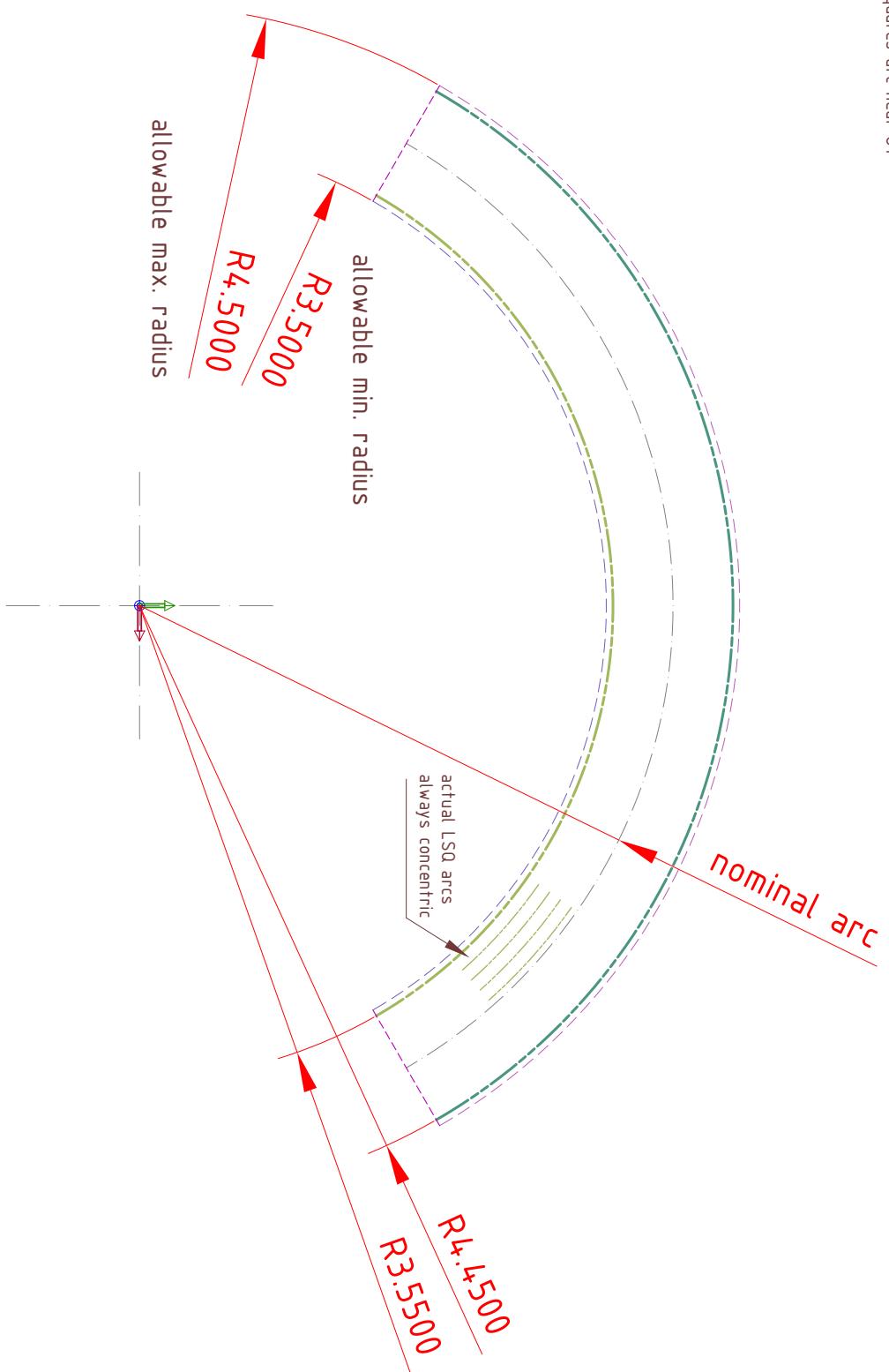


Radius $R4 \pm 0.5$ and Profile

Pic. #1

Derived elements at the limits.
All actual arcs are concentric
to the nominal arc.

- least squares arc near OT
- - - least squares arc near UT

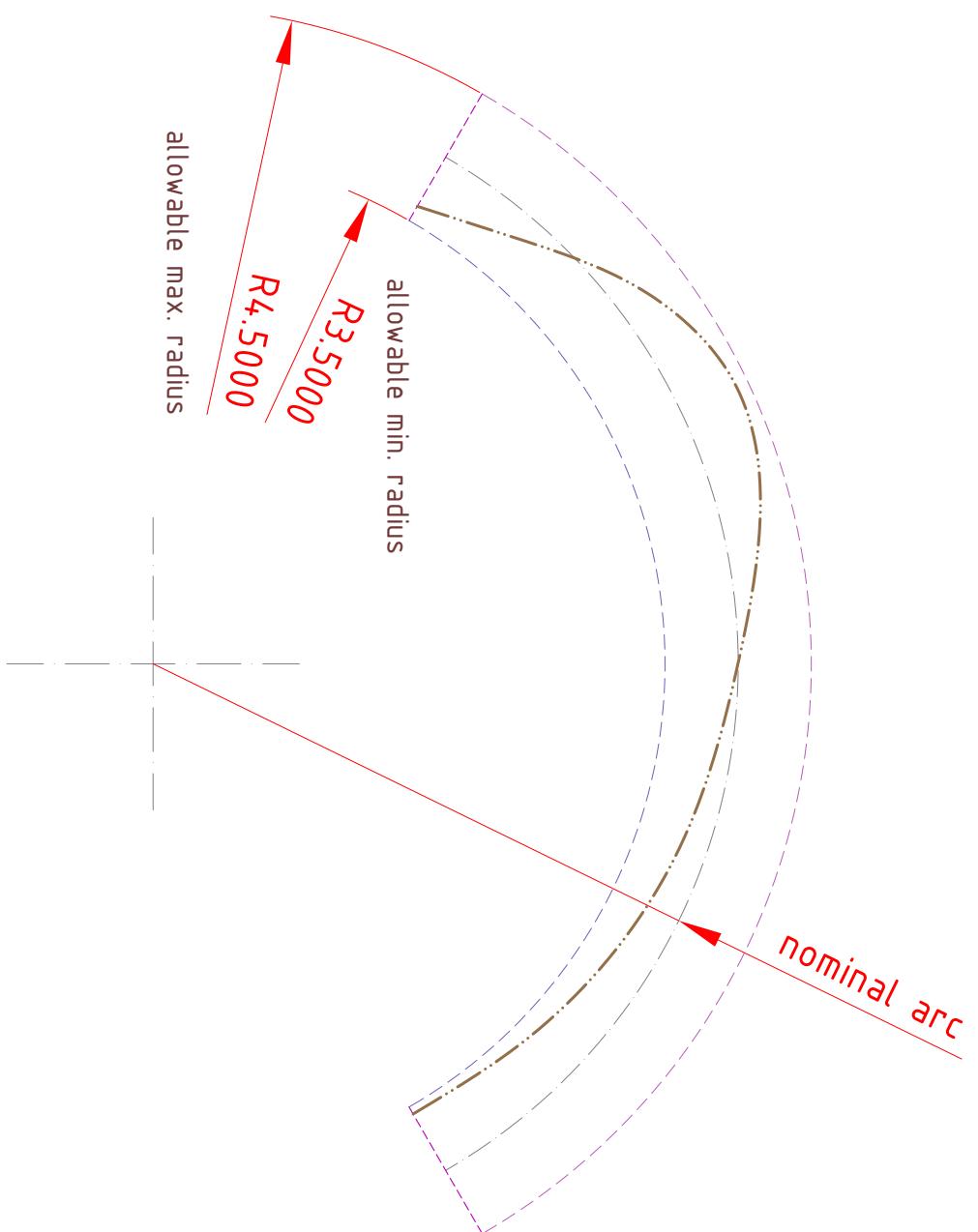


Radius $R4\pm0.5$ and Profile

Pic. #2

Surface points at the limits.

one polyline near OT/UT
(surface points)



Radius $R4 \pm 0.5$ and Profile

Pic. #3

Derived elements and surface points at the limits.

- ... — ... one polyline near OT/UT (surface points)
- - - - two arcs near OT/UT (derived elements)

good gradient

bad gradient

Bad gradients lead to the necessity of scaling down the arc tolerance.
(regarding profile)

Polyline

$R3.5500$

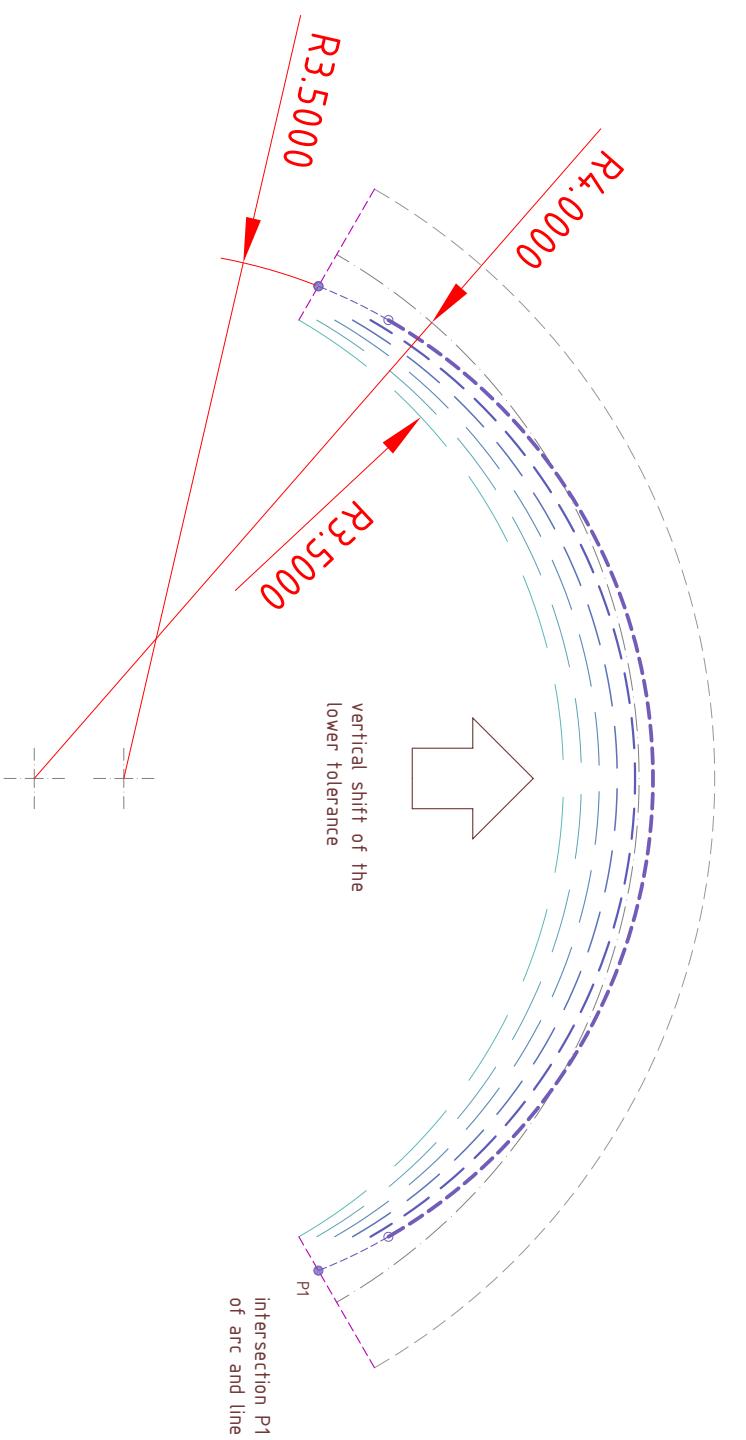
$R4.4500$

Radius R 4 ± 0.5 and Profile

Pic. #4

Scaling down the plus-minus-tolerance

vertical shift to
least squares position
of R3.5000

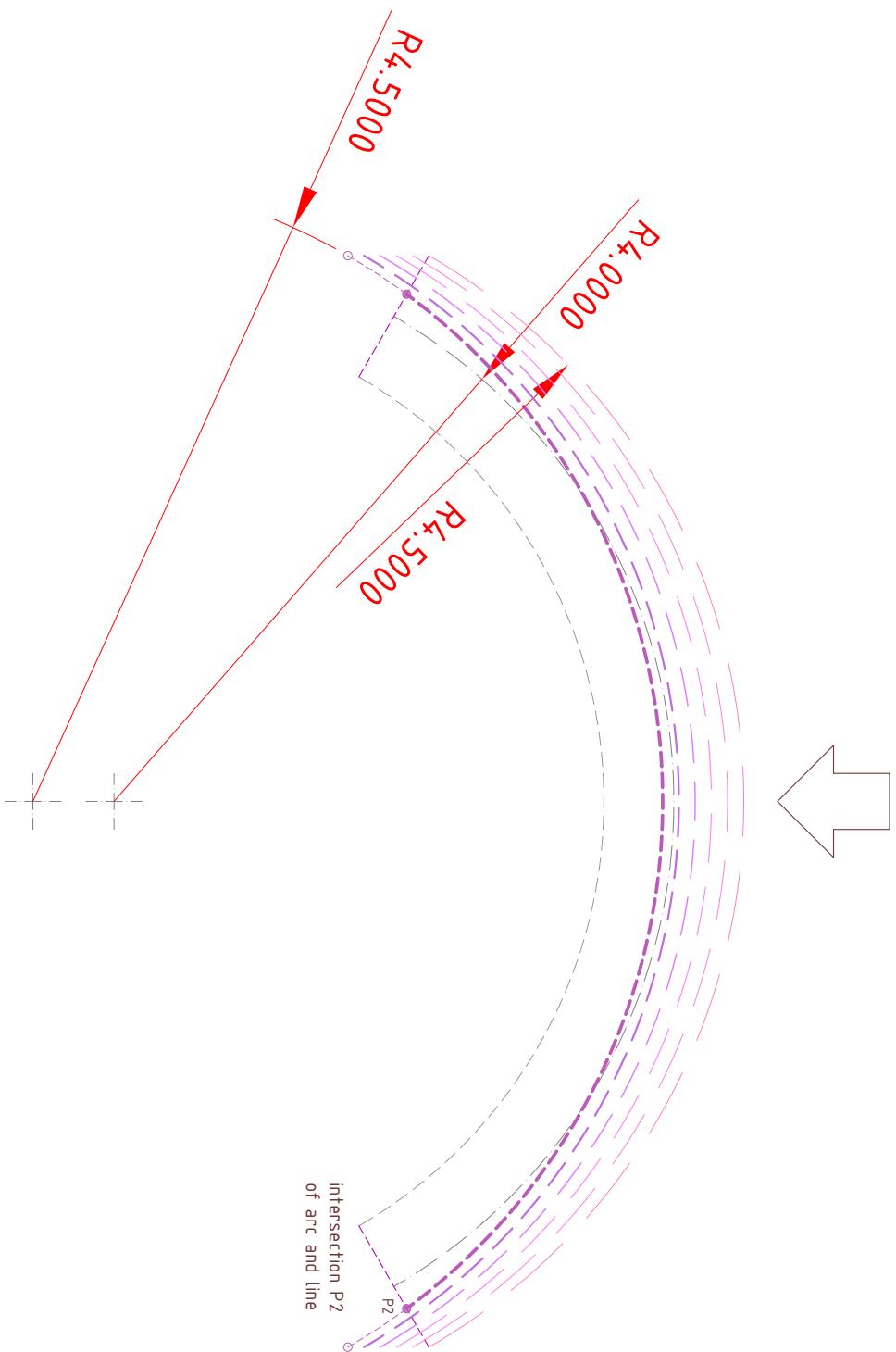


Radius R _{4±0.5} and Profile	Pic. #5
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Scaling down the plus-minus-tolerance

— vertical shift to least squares position of R_{4,5000}

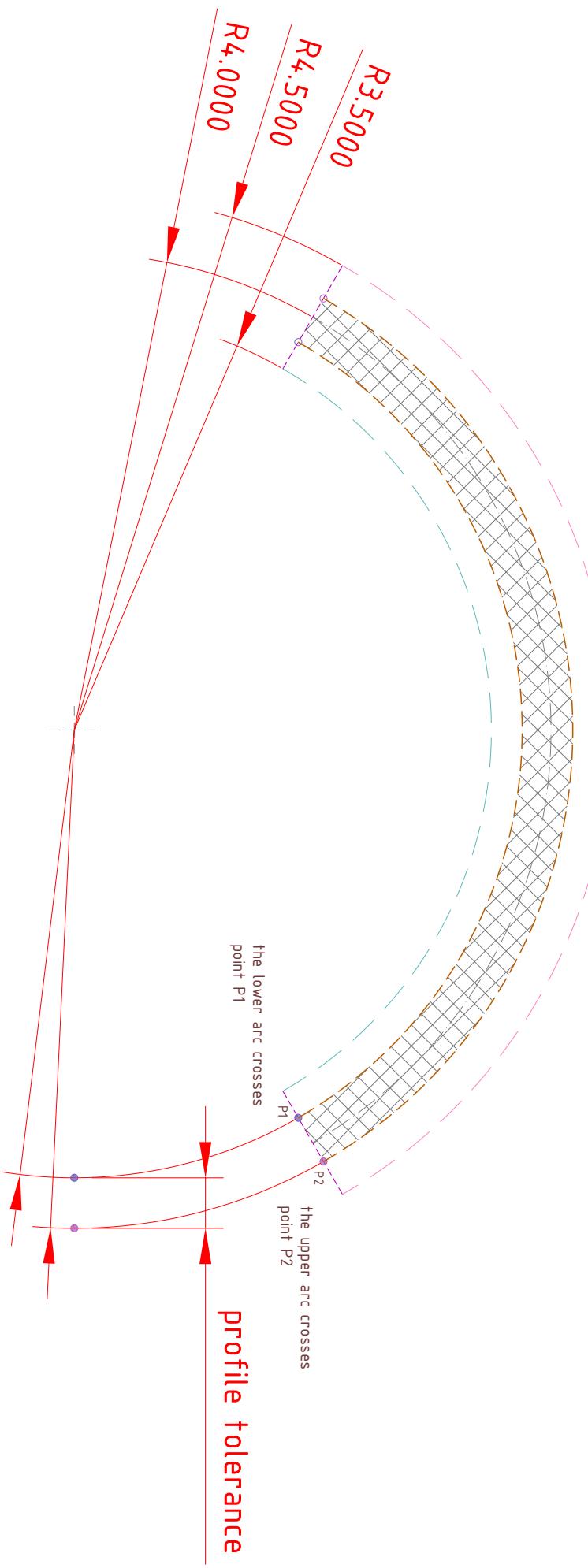
vertical shift of the upper tolerance



Radius R_{4±0.5} and Profile Pic. #6

Scaling down the plus-minus-tolerance

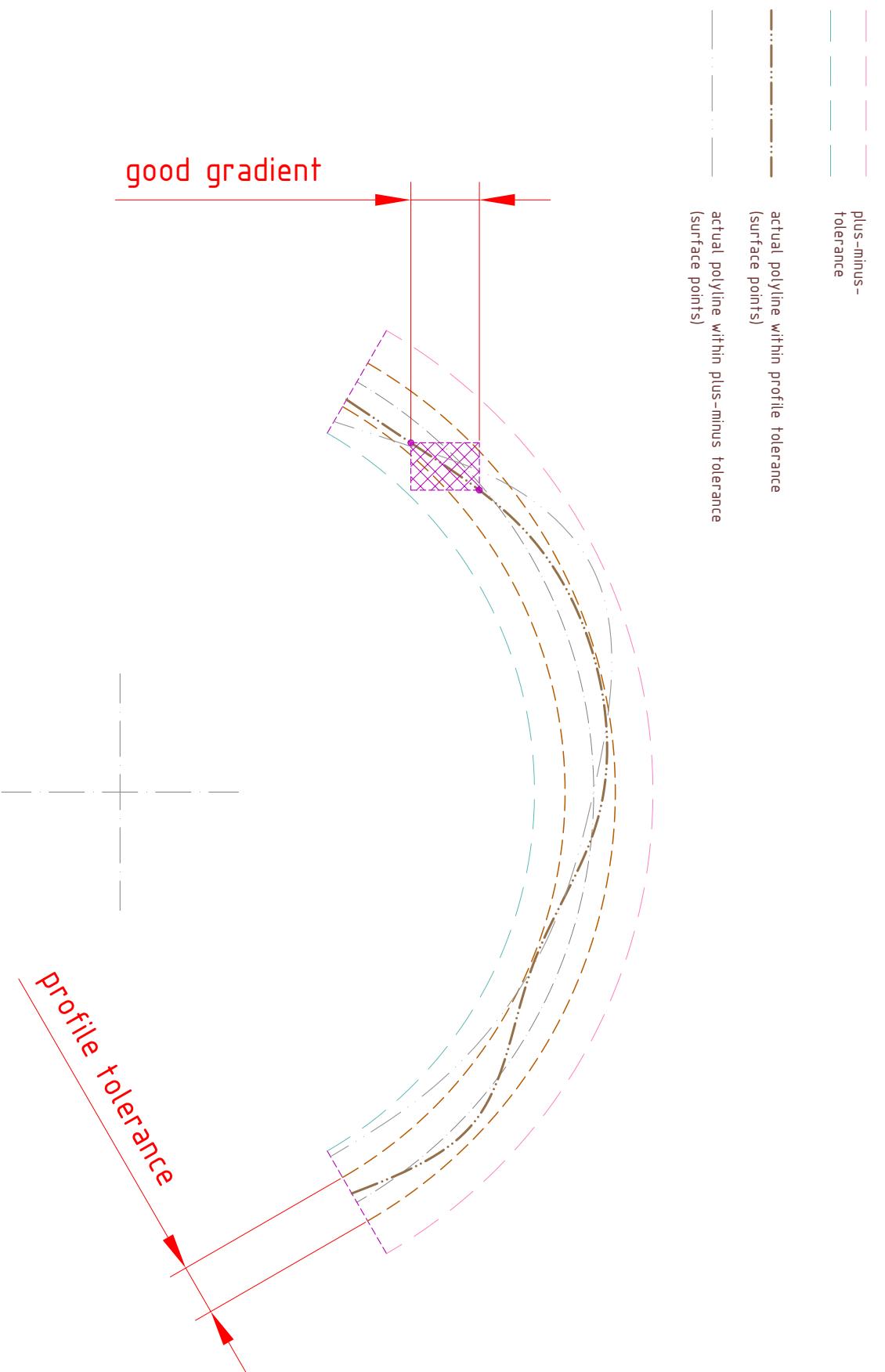
plus-minus-tolerance



Radius R 4 ± 0.5 and Profile

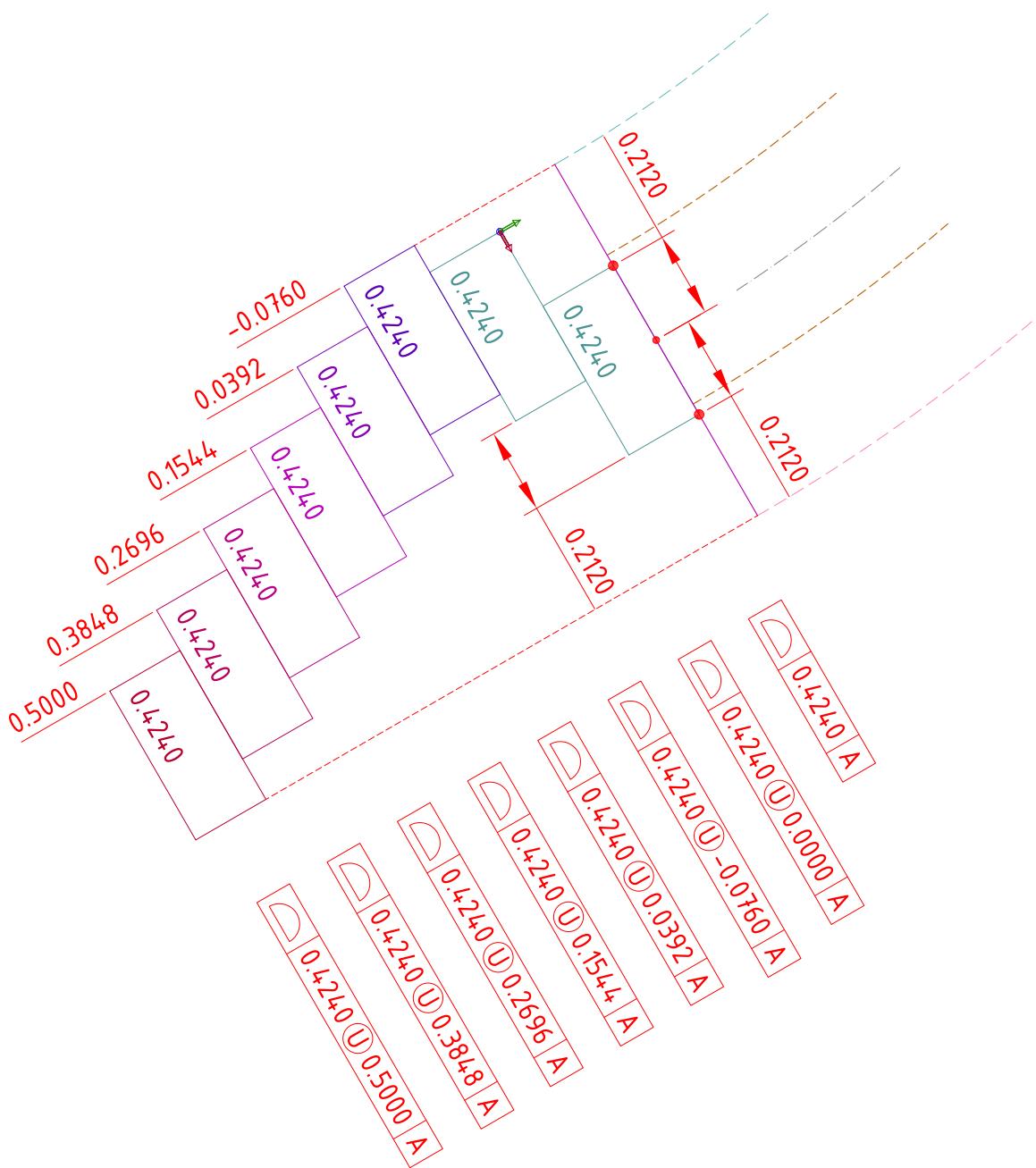
Pic. #7

Scaling down the plus-minus-tolerance



Radius R 4 ± 0.5 and Profile Pic. #8

Definition of profile tolerances.



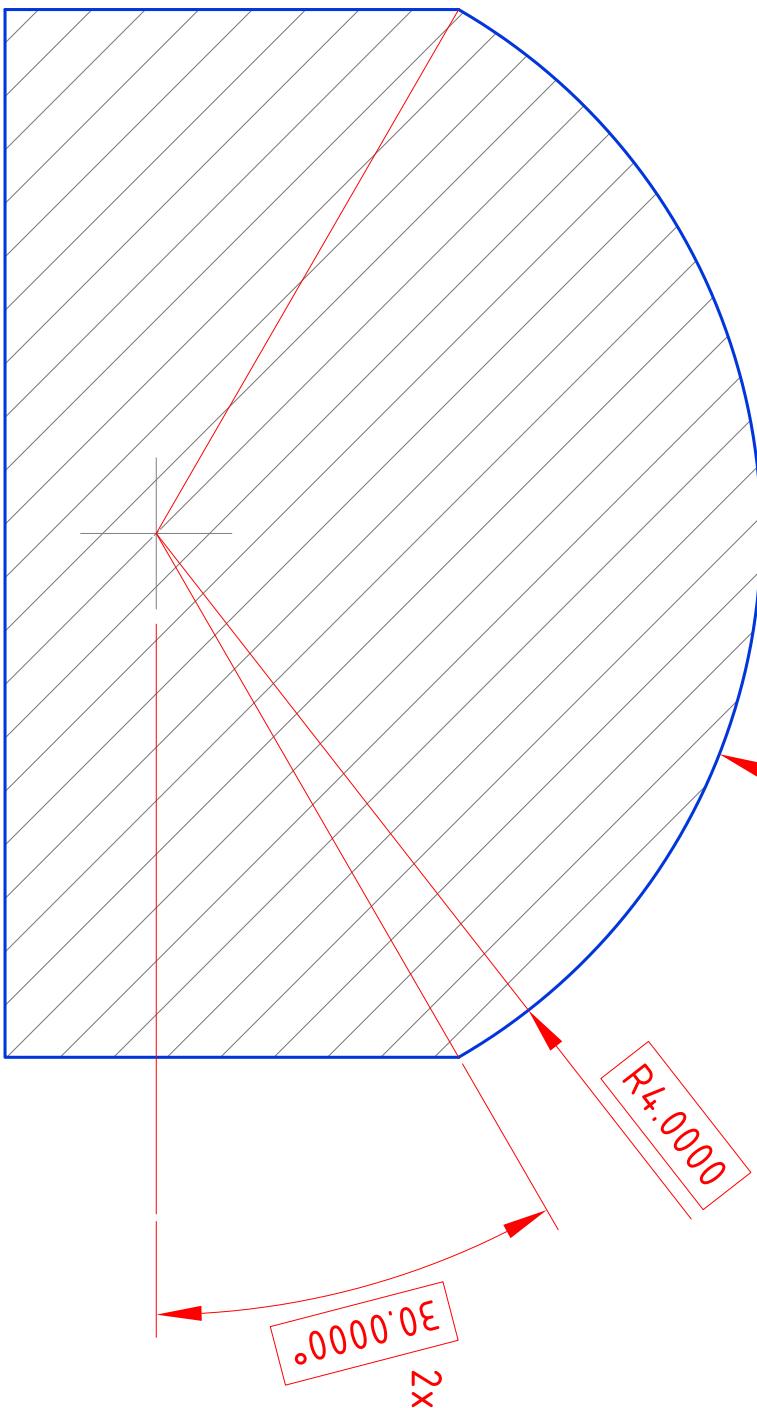
Radius R₄±0.5 and Profile

Pic. #9

Scaling down the plus-minus-tolerance as a kind of "FRTZF" and simultaneously regarding the plus-minus-tolerance as a kind of "PLTZF".

One of six within spec.

\odot	0.4240	\textcircled{U}	-0.0760	A
\odot	0.4240	\textcircled{U}	0.0392	A
\odot	0.4240	\textcircled{U}	0.1544	A
\odot	0.4240	\textcircled{U}	0.2696	A
\odot	0.4240	\textcircled{U}	0.3848	A
\odot	0.4240	\textcircled{U}	0.5000	A



Radius R 4 ± 0.5 and Profile

Pic. #10

Putting in a roundness-tolerance as a kind of "FRTZF" and simultaneously regarding the profile-tolerance as a kind of "PLTZF".

