

PROJECT REFERENCE NO. <i>U-3308</i>		SHEET NO. <i>RR-3</i>	
RW SHEET NO.			
RAIL DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

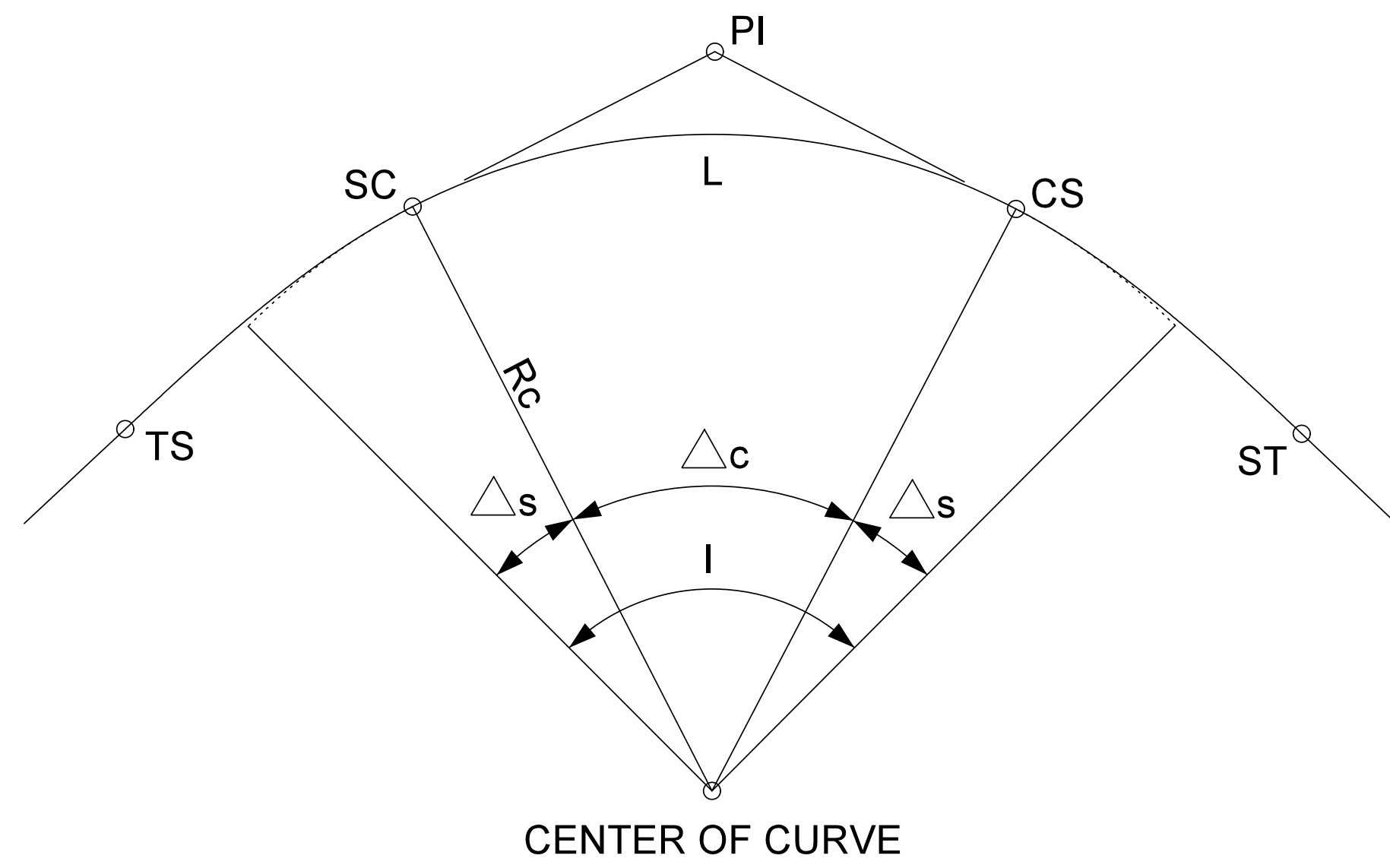


FIGURE A
CIRCULAR CURVE WITH SPIRAL TRANSITION

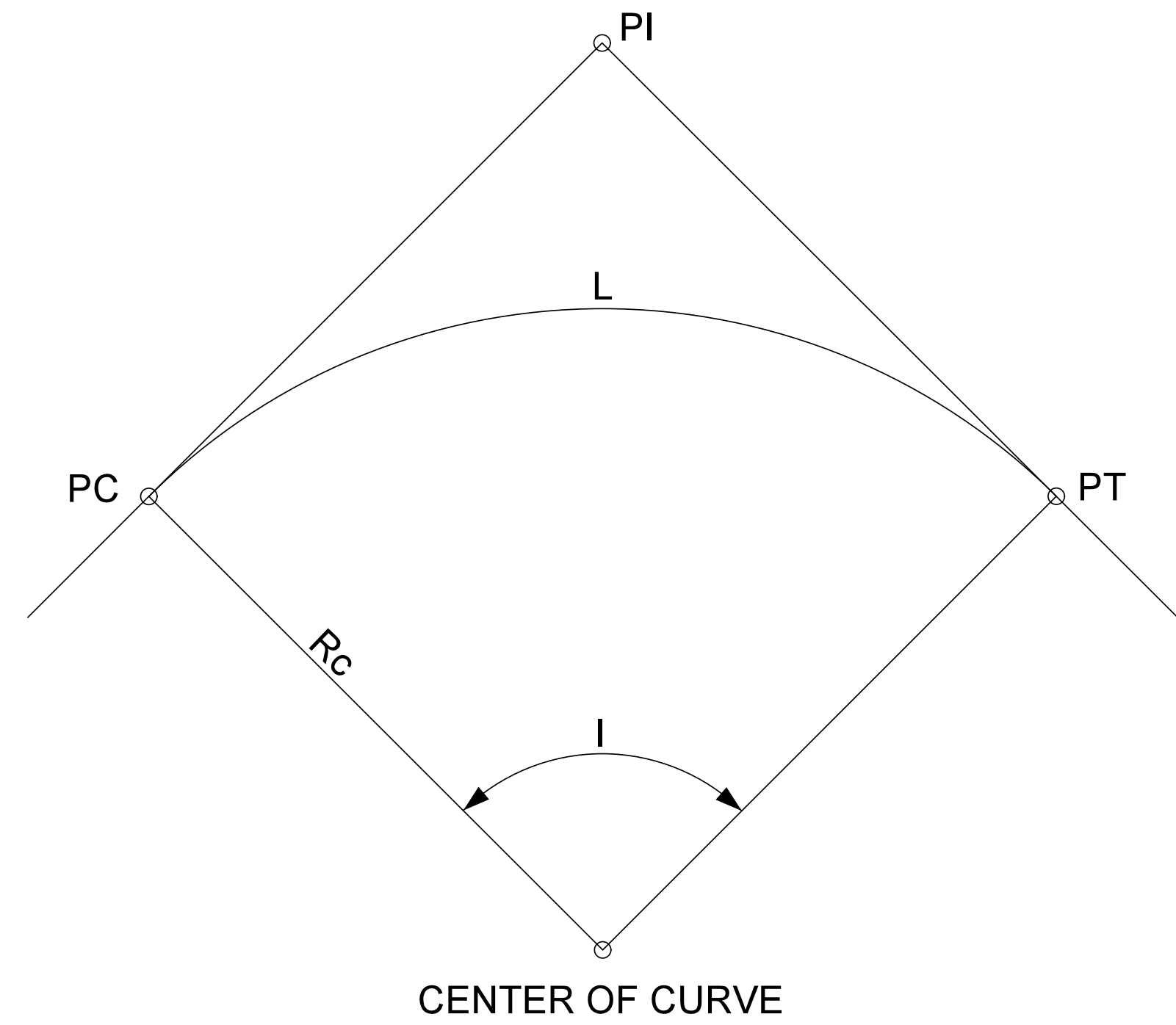


FIGURE B
SIMPLE CIRCULAR CURVE

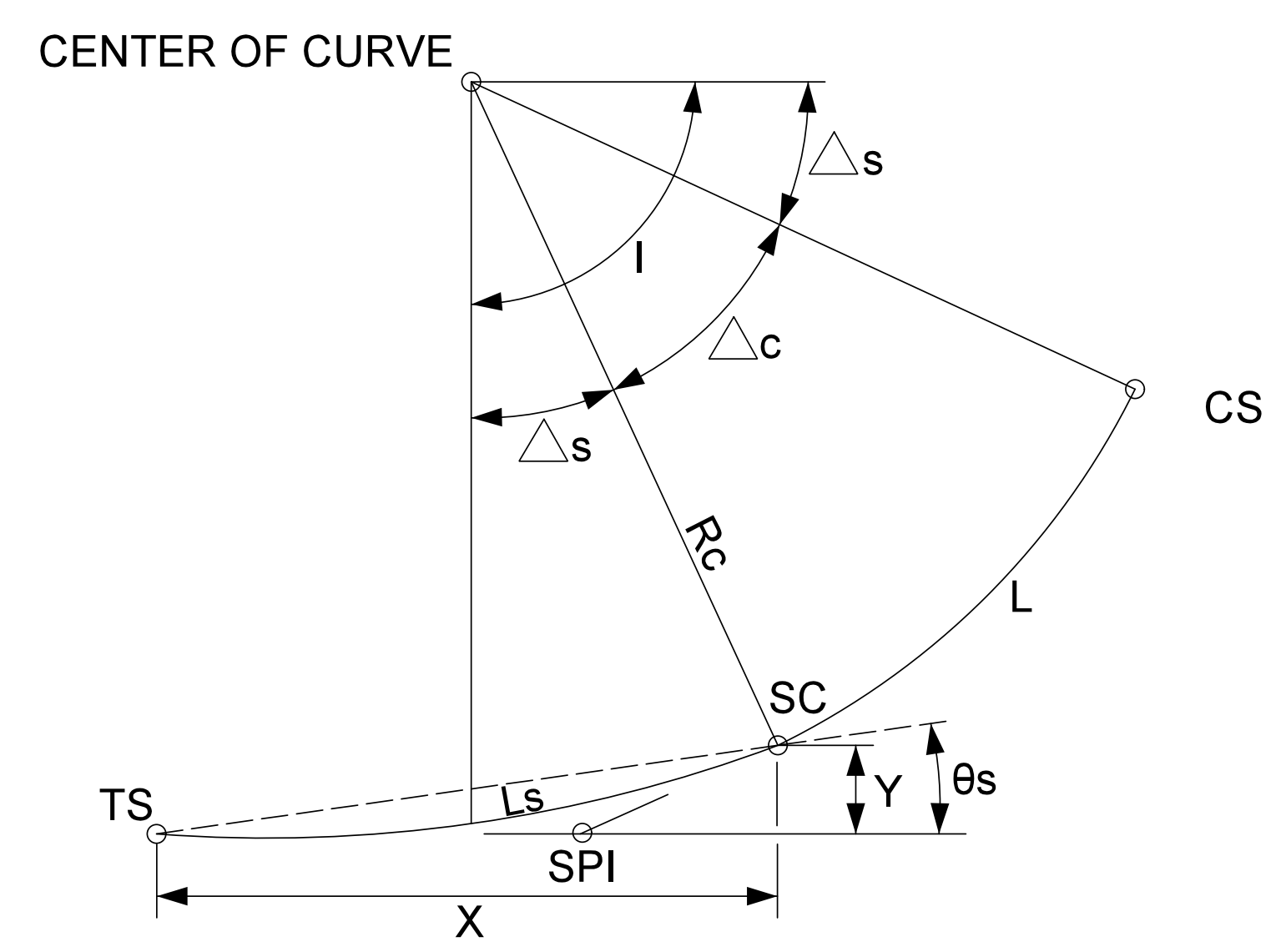


FIGURE C
SPIRAL TRANSITION CURVE

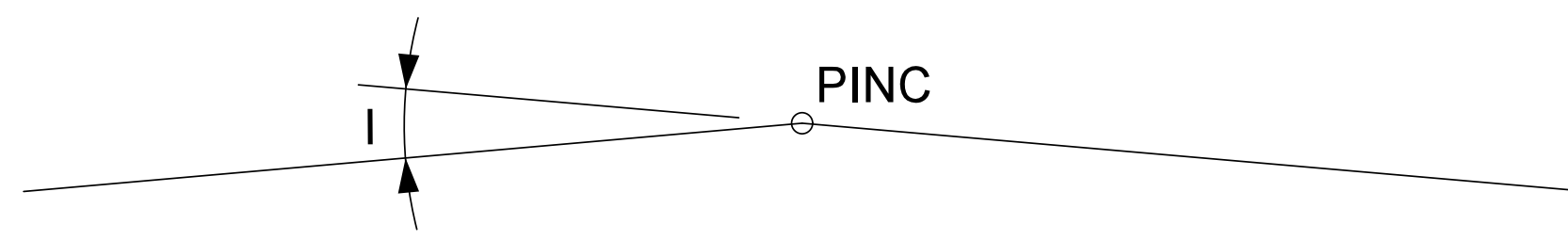


FIGURE D
DEFLECTION BETWEEN TANGENTS

- △_c CURVE ANGLE
- △_s SPIRAL ANGLE
- θ_s SPIRAL DEFLECTION
- CS CURVE TO SPIRAL
- D_c DEGREE OF CURVATURE (CHORD DEFINITION)
- I TOTAL INTERSECTION ANGLE
- L LENGTH OF CURVE (CHORD DEFINITION)
- L_s LENGTH OF SPIRAL
- PC POINT OF (CIRCULAR CURVATURE)
- PI POINT OF INTERSECTION (CURVE)
- PINC POINT OF INTERSECTION, NO CURVE
- PT POINT OF TANGENCY
- R_c RADIUS OF CIRCULAR CURVE
- SC SPIRAL TO CURVE
- SPI POINT OF INTERSECTION (SPIRAL)
- ST SPIRAL TO TANGENT
- TS TANGENT TO SPIRAL
- X SPIRAL TANGENT LENGTH TO OFFSET
- Y SPIRAL TANGENT OFFSET