



NOTES:

A Curved alignment is achieved by installing a series of pipe sections that each have a skewed end. These pipe sections, known as radius pipe, are manufactured with a calculated amount of skew (drop) to achieve the desired radius of curvature. The drop is calculated as follows:

$$\text{DROP} = \frac{(\text{O.D.}) (L)}{\text{O.D.} + R} \quad \text{where}$$

O.D. = OUTSIDE DIAMETER OF PIPE
 L = PIPE LENGTH (LONG SIDE)
 R = RADIUS OF CURVATURE

- B The beginning of curve B.C. is A, the middle of the last piece of straight pipe before the curve. The end of curve E.C. is at the middle of the last piece of radius pipe in the curve.
- C The projections of the joints of the curve do not meet at the centre of the curve (radius point). They are tangents of a circle whose centre is the radius point, and whose diameter is equal to one radius pipe length.

CON CAST PIPE
 R.R. #3, Guelph, Ontario N1H 6H9
 Tel: 1-800-668-PIPE (7473)

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**CURVED ALIGNMENT
 USING RADIUS PIPE**