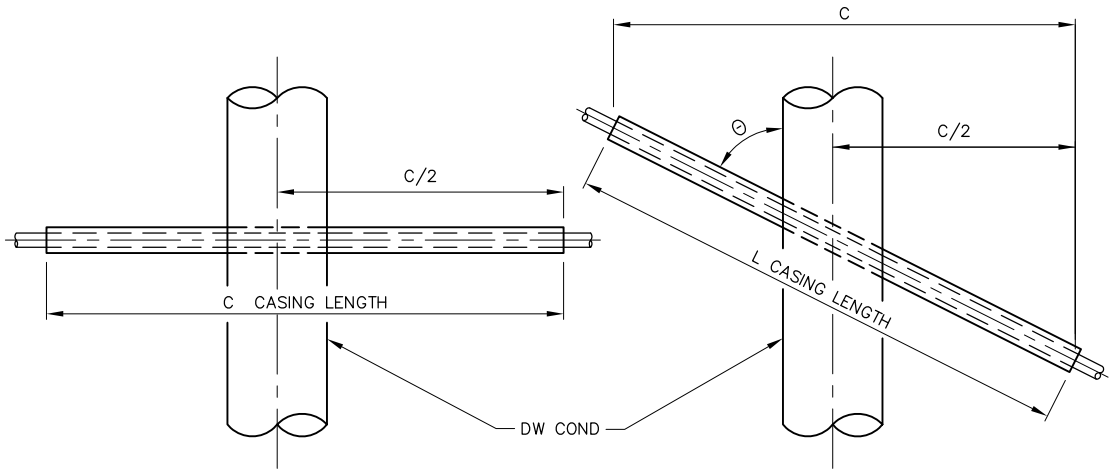
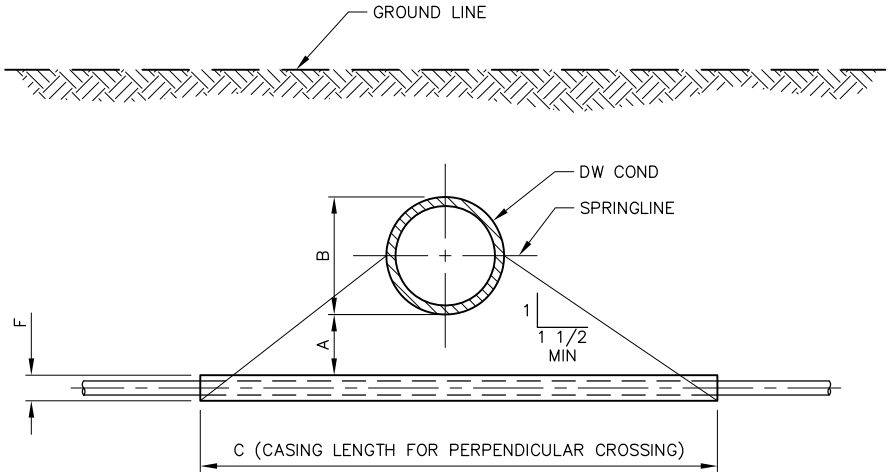


PLAN
FOR PERPENDICULAR CROSSING

PLAN
FOR ANGLE CROSSING



PROFILE

FORMULA FOR FINDING C:

$$C = B+(2)(1.5)\left[\frac{B}{2}+A+F\right]$$

- PERPENDICULAR CROSSING CASING LENGTH
- OD DW COND
- CONSTANT
- RATIO OF MIN SLOPE
- CASING OD
- VERT DIST BTWN CASING & DW COND
- 1/2 OD DW COND

FORMULA FOR FINDING L:

$$L = \frac{C}{\text{SIN } \Theta}$$

NOTES:

1. THE BORING & CASING METHOD & MATERIALS SHALL APPROVED BY DENVER WATER.
2. SOIL AT ENDS OF CASING SHALL BE STABLE AT ALL TIMES.
3. CATHODIC PROTECTION SHALL BE PROVIDED FOR STEEL CASING AS REQUIRED BY DENVER WATER.
4. CASING PIPE SHALL BE STRAIGHT, ROUND, & OF NEW MATERIAL.

DENVER WATER
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BORED CROSSING BENEATH CONDUITS

Scale: NONE	Date: March 2012
Drawn: C.B.B.	Ck: K ROSS
Approved:	Dr. 127 No. 35