PLAN
FOR PERPENDICULAR CROSSING

PLAN
FOR ANGLE CROSSING

GROUND LINE

CONDL OR CONFLICTING
UTILITY

PROFILE

FORMULA FOR FINDING C:

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

- PERPENDICULAR CROSSING
- CASING LENGTH
- OD DW COND
- CONSTANT
- RATIO OF MIN SLOPE

FORMULA FOR FINDING L:

\[ L = \frac{C}{\sin \theta} \]

NOTES:
1. THE BORING AND CASING METHOD AND MATERIALS SHALL BE APPROVED IN WRITING BY DENVER WATER PRIOR TO CONSTRUCTION.
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, AND OF NEW MATERIAL.