**SECTION A-A**

Maximum inside diameter of steel casing = 1/2"

**SECTION B-B**

Minimum inside diameter of steel casing = 2/3"

**ROUND COLUMN**

**SECTION A-A**

Elliptical casing detail

**SECTION B-B**

Elliptical casing detail

**RECTANGULAR COLUMN**

**DETAIL A**

The contractor shall verify all controlling field dimensions before erecting or fabricating any material.

**DETAIL B**

**NO SCALE**

**NOTES**

1. For varying thickness, steel casing inside surface to remain flush, minimum clearance from PCC column to casing shall be maintained.

2. Appropriate injection nozzle(s) be provided on casing, but removed and ground smooth following completion of grouting operation.

3. All voids between steel casing and polyethylene (TYPE F and P/F) and steel casing and PCC column (TYPE F) to be filled with grout.

4. Location and number of vertical and horizontal welds to be determined by the Contractor and subject to the approval of the Engineer. The location of grouting welds are for illustration, no skip welds allowed.

5. Circular steel casing to be 1/2" thick minimum for casing with a 4' diameter or less. All other steel casings to be 5/8" unless noted differently on contract plans, backing plates to be the same thickness as casing up to maximum 1/4" thick.

6. Contractor must remove 12" polyethylene from backfilling before casing is closer than 2" from face of column.

7. Waterproof limits for steel casings. Typical for other openings, the opening diameter to be greater than the pipe extension diameter. For varying thickness, steel casing inside surface to remain flush. Minimum clearance from PCC column to casing shall be maintained.

8. For pipe extensions, opening must be no more than 1/2" greater than the pipe extension diameter. For other openings, the opening diameter to be determined by the Engineer.

9. Minimum slinger filter wash must not be less than thickness of opening reinforcement.