NOTE:
1. When directed, camber pipe culverts upward from a chord through the inlet and outlet invert an ordinate amount equal to 1/8 of the pipe length. Develop camber on a parabolic curve. If the midpoint elevation on the parabolic curve as designed exceeds the elevation of the inlet invert, reduce the amount of camber or increase the pipe culvert gradient.

2. H equals the diameter of all round pipe culverts or the rise dimension of all pipe arch culverts.

3. See Section 704 for bedding and backfill requirements.

**PIPE BEDDING**

- Reduce to 18" for trench excavations
- See bedding depth table

**MINIMUM SPACING**

- Diameter or Span
- Spacing
- Up to 48"
- 24"
- 48" and Up
- Half diameter or span or 36", whichever is less

**ELEVATION**

**MULTIPLE PIPE INSTALLATION**

**LEGEND:**

- Bedding material (uncompacted)
- Embankment material placed in layers not exceeding 6" compacted depth.
- Compacted backfill material placed in layers not exceeding 6" compacted depth; or load and concrete backfill in accordance with Section 614.
- Impermeable backfill material.

**BELOW NATURAL GROUND OR TRENCH EXCAVATION IN EMBANKMENT**

- Construct piping plug of impermeable backfill material at the pipe culvert inlet where granular material is used for backfill. Width may be adjusted to tie into impermeable material.

**PIPING PLUG**

**SECTION A-A**

**U.S. CUSTOMARY DETAIL**

**METAL AND PLASTIC PIPE CULVERT BEDDING**