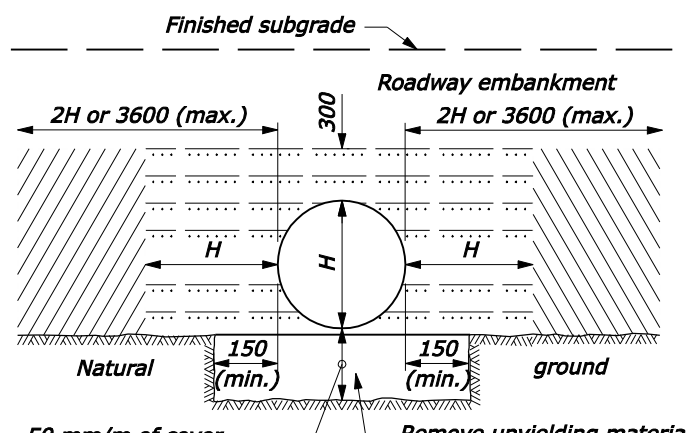
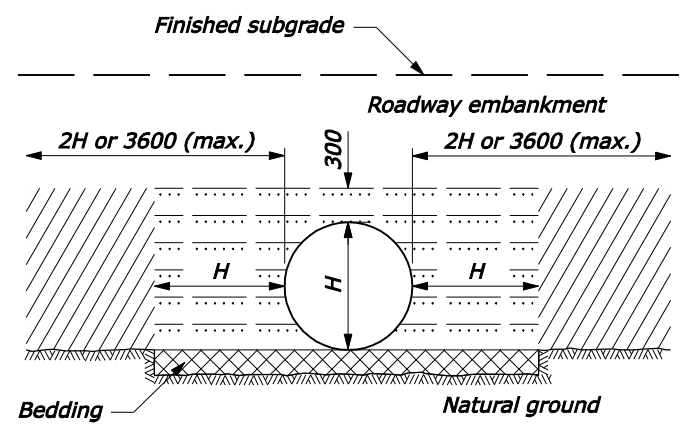


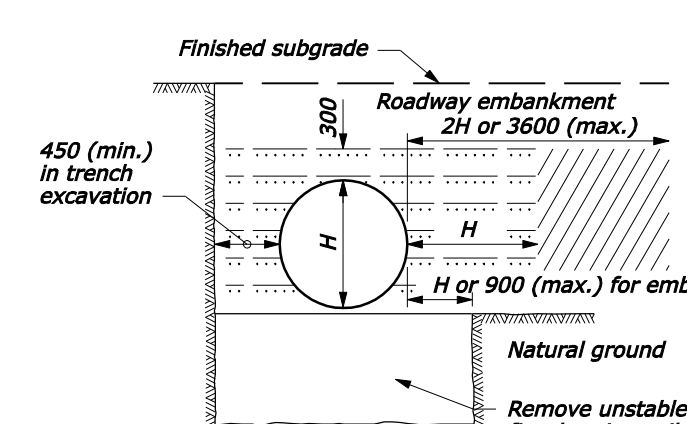
ABOVE NATURAL GROUND



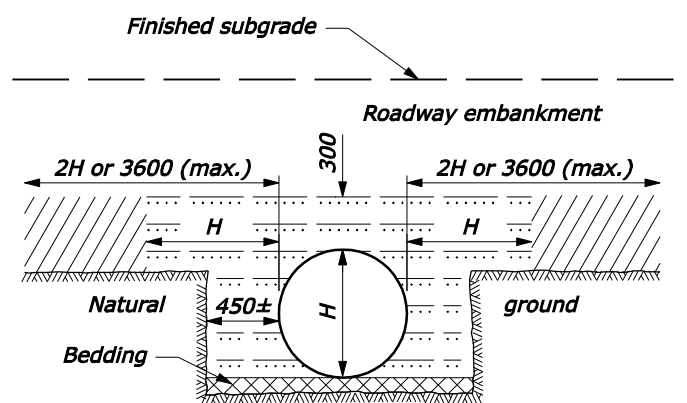
ON UNYIELDING MATERIAL



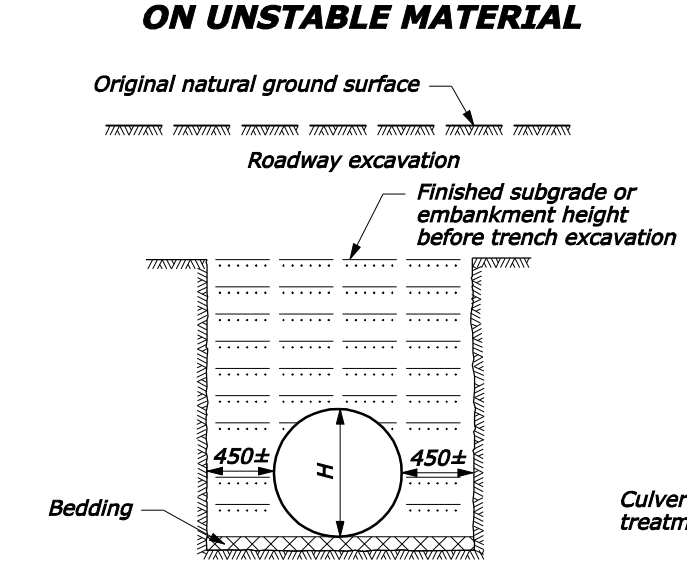
ON NATURAL GROUND



ON UNSTABLE MATERIAL



ABOVE AND BELOW NATURAL GROUND



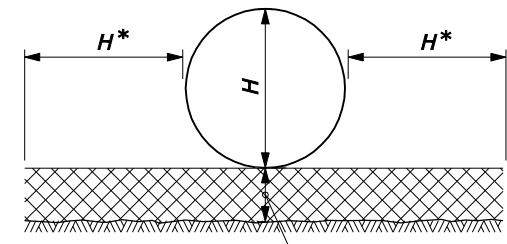
BELOW NATURAL GROUND OR TRENCH EXCAVATION IN EMBANKMENT

- Bedding material (uncompacted)
- Embankment material placed in layers not exceeding 150 mm compacted depth.
- Compacted backfill material placed in layers not exceeding 150 mm compacted depth meeting the following:
 Metal Pipe: Maximum particle size = 75 mm
 Soil classification: A-1, A-2, or A-3
 Plastic Pipe: Maximum particle size: 37.5 mm
 Soil classification: A-1, A-2-4, A-2-5, or A-3
 Or lean concrete backfill in accordance with Section 614.

BEDDING DEPTH	
PIPE SIZE (H)	DEPTH
300 to 1350	100
> 1350	150

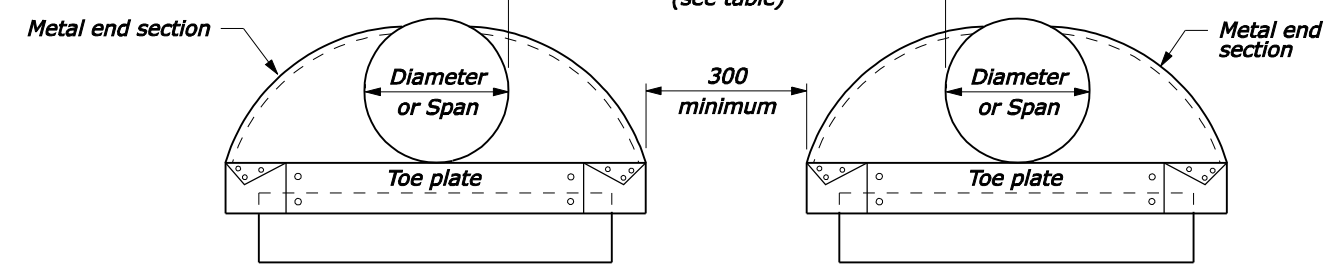
NOTE:

- When directed, camber pipe culverts upward from a chord through the inlet and outlet inverts an ordinate amount equal to 1% 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.
- H equals the diameter of all round pipe culverts or the rise dimension of all pipe arch culverts.
- Dimensions without units are millimeters.



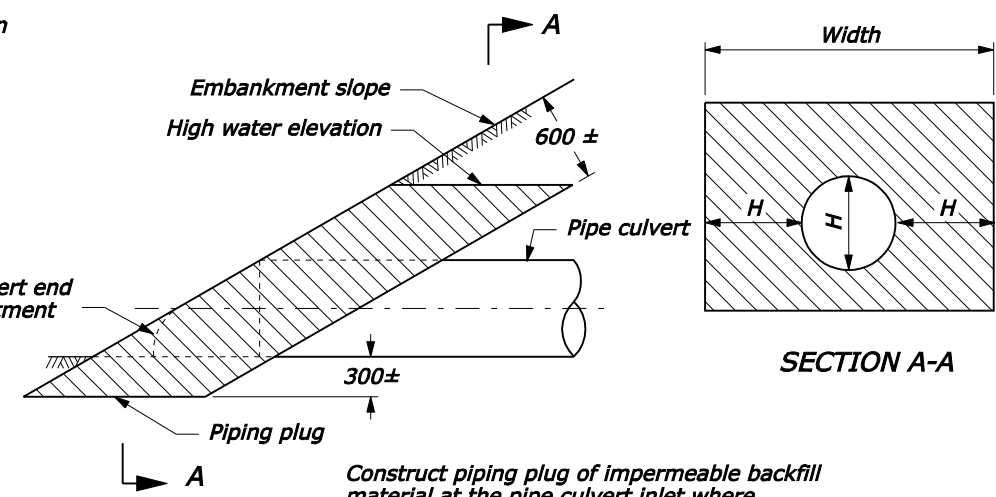
PIPE BEDDING

MINIMUM SPACING	
DIAMETER or SPAN	SPACING
UP to 1200	610
1200 and UP	Half diameter or span OR 900 whichever is less



ELEVATION

MULTIPLE PIPE INSTALLATION



PIPING PLUG

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 impervious material.

NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 FEDERAL LANDS HIGHWAY

METRIC STANDARD

METAL AND PLASTIC PIPE CULVERT BEDDING

STANDARD APPROVED FOR USE 3/1996
 REVISED: 12/1998 6/2005

STANDARD
M602-3

03-Oct-2005 06:41 AM F:\StandDraw\std6203.dgn [Metric]