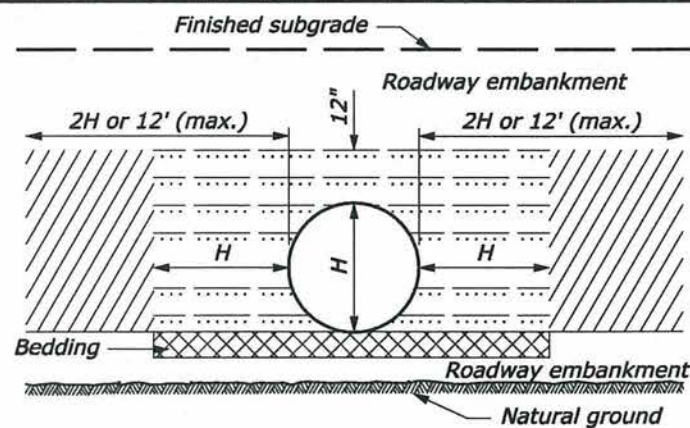
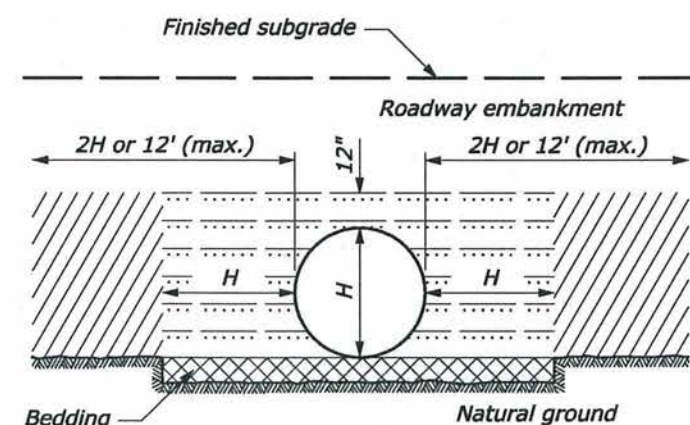


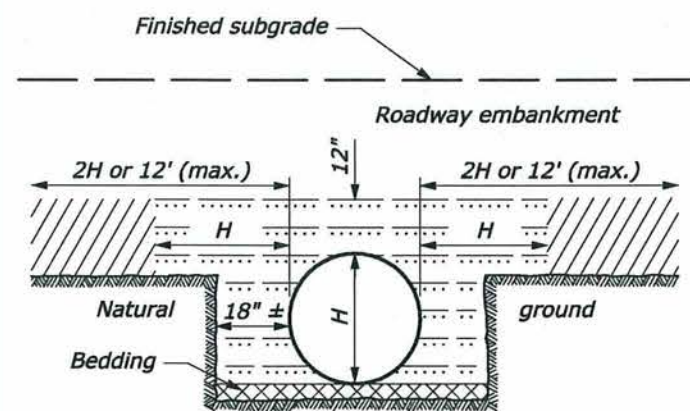
STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(7)	G12	G25



ABOVE NATURAL GROUND

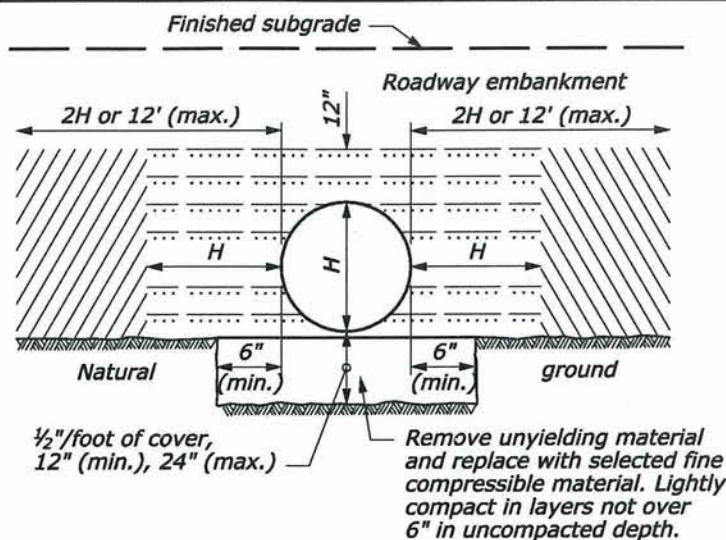


ON NATURAL GROUND

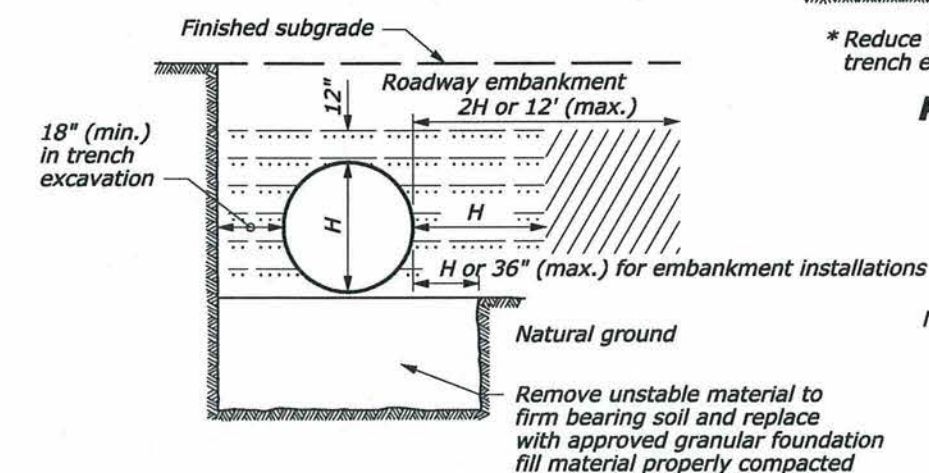


ABOVE AND BELOW NATURAL GROUND

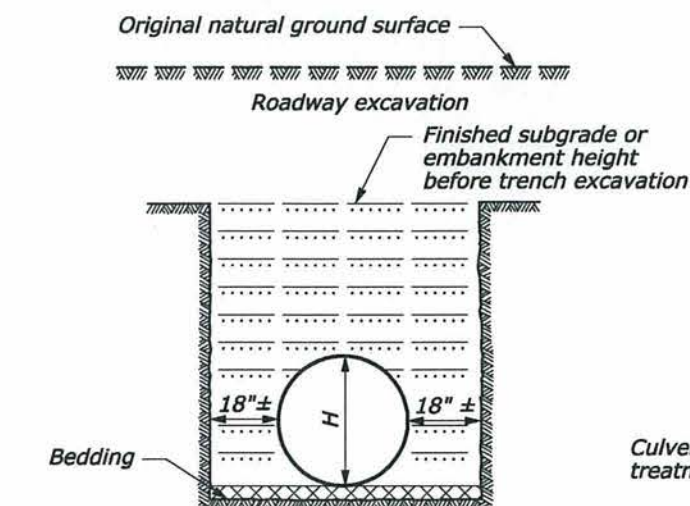
- Bedding material (uncompacted)
 Embankment material placed in layers not exceeding 6" compacted depth.
 Compacted backfill material placed in layers not exceeding 6" compacted depth meeting the following:
 Metal Pipe: Maximum particle size = 3"
 Soil classification: A-1, A-2, or A-3
 Plastic Pipe: Maximum particle size: 1 1/2"
 Soil classification: A-1, A-2-4, A-2-5, or A-3
 Or lean concrete backfill in accordance with Section 614.



ON UNYIELDING MATERIAL

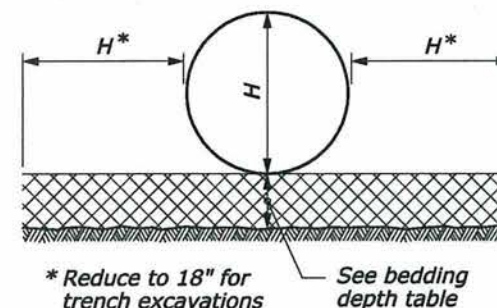


ON UNSTABLE MATERIAL



BELOW NATURAL GROUND OR TRENCH EXCAVATION IN EMBANKMENT

BEDDING DEPTH	
PIPE SIZE (H)	DEPTH
12" to 54"	4"
> 54"	6"



PIPE BEDDING

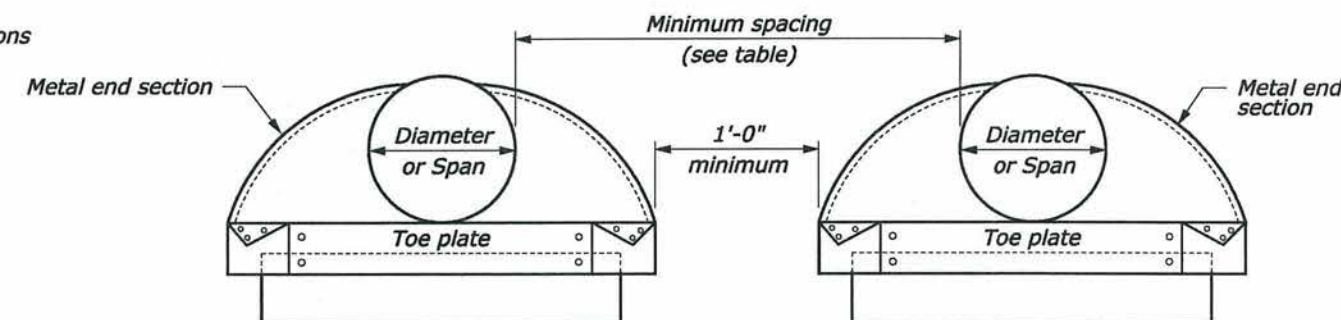
NOTE:

- 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.

AS-BUILT DRAWINGS/SPECIFICATIONS
 The dimensions and details shown on this sheet reflect the dimensions and details and specifications as constructed in the field.

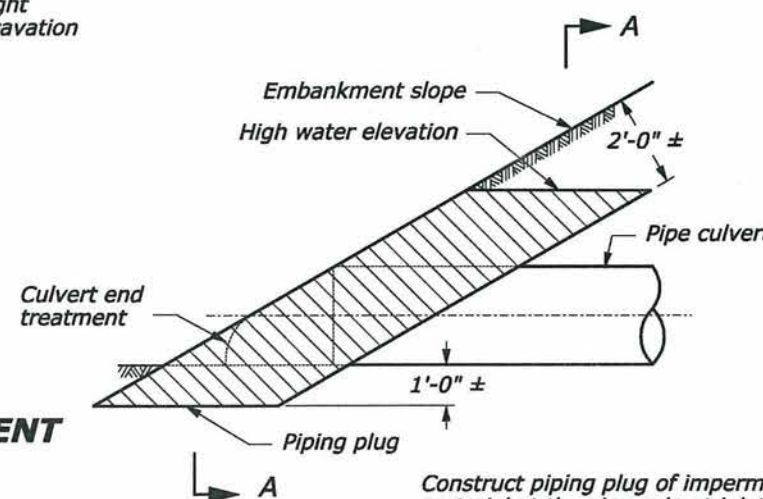
GOODFELLOW BROS., INC.
 Contractor's Name:

MINIMUM SPACING	
DIAMETER or SPAN	SPACING
UP to 48"	24"
48" and UP	Half diameter or span OR 36" whichever is less



ELEVATION

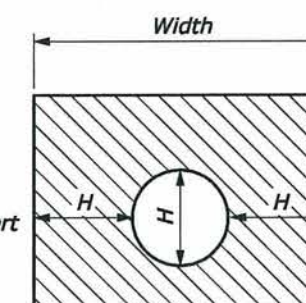
MULTIPLE PIPE INSTALLATION



PIPING PLUG

NO SCALE

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.



SECTION A-A



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
 Signature: *Wendy G. McLain* 4/30/2012
 EXPIRATION DATE OF THE LICENSE

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

U.S. CUSTOMARY STANDARD

METAL AND PLASTIC PIPE CULVERT BEDDING

STANDARD APPROVED FOR USE 12/1993 REVISED: 4/1994 6/2005	STANDARD 602-3
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