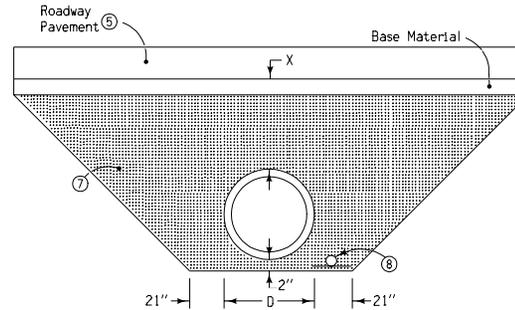
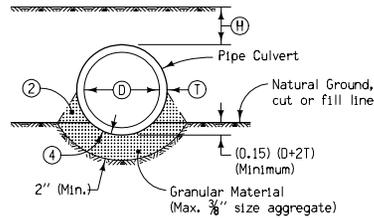


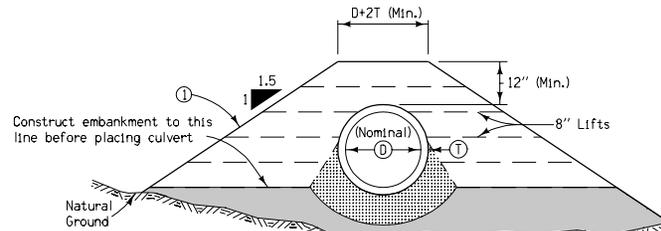
Backfill - Trench Installation
X = 0 to 3'



Backfill - Trench Installation
X = 3' to 5'



Bedding



Backfill - Fill Installation

CLASS 'B' BEDDING BACKFILL ⑥

Where a corrugated metal pipe culvert requiring elongation is to be installed, such elongation is to be accomplished by means approved by the Engineer. Elongation may be developed either as part of shop fabrication or field installation.

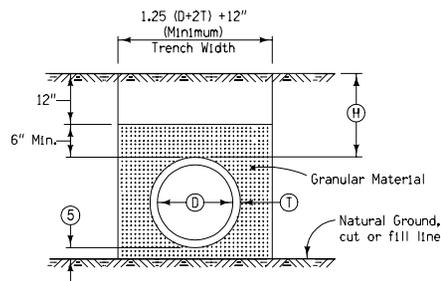
Minimum and maximum allowable cover for pipe culverts shall be as shown on the appropriate Standard Road Plans for the particular kind of culvert, as follows:

- RF-31 Depth of Cover Tables for Concrete Pipe
- RF-32 Depth of Cover Tables for Corrugated Pipe
- RF-33 Depth of Cover Tables for Corrugated Pipe

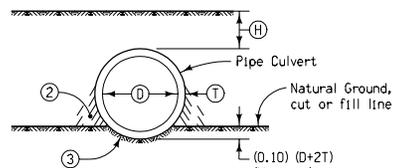
Minimum and maximum allowable cover for polyethylene pipe culverts shall be 2 feet and 15 feet, respectively.

Tabulation: 104-3

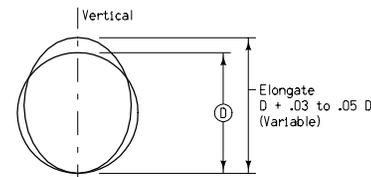
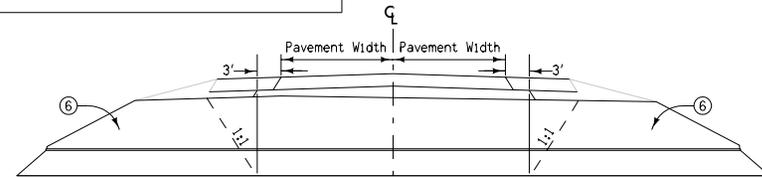
- ① The backfill adjacent to and above the pipe culvert may be placed in conjunction with normal embankment construction. The embankment within the limits shown shall be thoroughly tamped.
- ② Extra care shall be taken to ensure complete and satisfactory tamping of backfill material in the area immediately adjacent to the lower portion of pipe.
- ③ The excavation below groundline shall be carefully made with a template or shaped by other means and checked with a template conforming to the actual dimension and shape of the pipe.
- ④ The granular material shall be carefully shaped with a template conforming to the shape of the pipe.
- ⑤ 2" minimum required for metal pipes.
4" minimum required for polyethylene pipes.
- ⑥ For pipe with granular fill, place a cohesive soil plug at the inlet and outlet, around the culvert to prevent seepage and erosion, respectively.
- ⑦ Flooded Granular Backfill with less than 4% passing #200.
- ⑧ 4" Subdrain at flowline elevation of culvert or below.



CLASS 'A' BEDDING BACKFILL ⑥
(Trench Installation)



CLASS 'C' BEDDING BACKFILL



ELONGATED PIPE

 Iowa Department of Transportation	REVISION
	7 10-17-06
STANDARD ROAD PLAN	RF-30A
SHEET 1 of 1	
REVISIONS: Added trench installation and flooded backfill for Class 'B'.	
 APPROVED BY DESIGN METHODS ENGINEER	

PIPE CULVERT
(BEDDING AND BACKFILL)