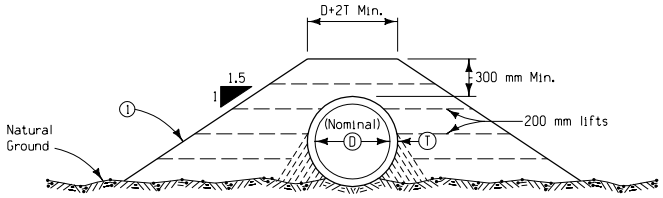
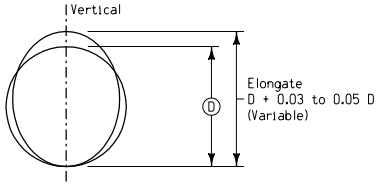
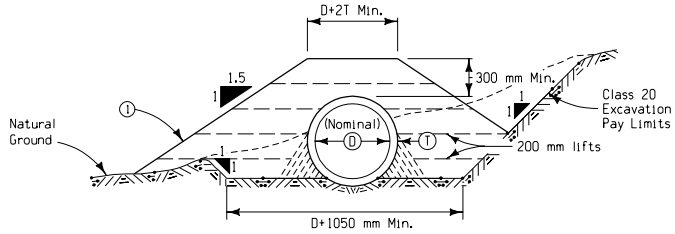


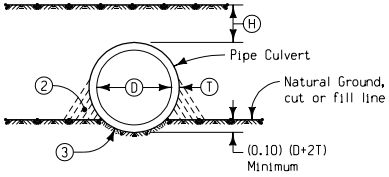
NORMAL CONDITION



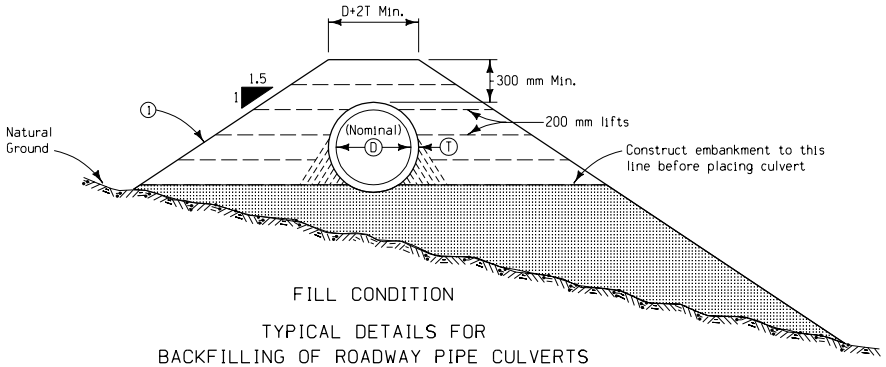
TYPICAL SECTION ELONGATED PIPE



CUT CONDITION

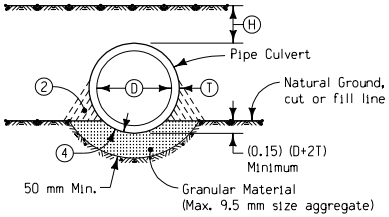


DETAILS FOR CLASS 'C' BEDDING



FILL CONDITION

TYPICAL DETAILS FOR
BACKFILLING OF ROADWAY PIPE CULVERTS



DETAILS FOR CLASS 'B' BEDDING

GENERAL NOTES:

Pipe culverts shall be of the kind and classification specified on detail project plans. Materials and methods of construction shall be in accordance with current Standard and Supplemental Specifications. Any construction features not covered by specifications shall be at the direction of the Engineer.

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 unless directed otherwise by the Engineer. Other details of installation for elongated pipe shall be the same as for round pipe unless otherwise directed by the Engineer.

The 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

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 throughly 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.

All dimensions given in millimeters unless noted.

M

Iowa Department of Transportation
Project Development Division

METRIC VERSION

STANDARD ROAD PLAN **RF–30A**

REVISION: Metric conversion of Standard Road Plan RF-30A no. 4 (dated 1-9-90).

REVISION NO. 4

David P. Little 11-18-94
APPROVED BY DESIGN METHODS ENGINEER

REVISION DATE 03-28-95

PIPE CULVERT
INSTALLATION DETAILS
(BEDDING AND BACKFILL)