



BEDDING DETAIL

NOTE: BACKFILL AND BEDDING MUST MEET ALL MINIMUM ASPECTS OF ASTM D-2321

Foundation

A foundation is required when the trench bottom is unstable. Any foundation that will support a rigid pipe without causing loss of grade or flexural breaking will be more than adequate for PVC pipes.

Bedding

The bedding directly underneath the pipe is required only to bring the trench bottom up to grade. It should not be so thick or soft that the pipe will settle and lose grade. The purpose of the bedding is to provide a firm, stable, and uniform support of the pipe. A layer of material sufficient to establish line, grade, and support should be placed. Bell holes should be excavated to insure uniform bearing.

Haunching

The haunching area is the most important in terms of limiting the deflection of a flexible pipe. This is the area that should be compacted to the required or specified density.

**ASTM D-2321
DESCRIPTION OF EMBEDMENT MATERIALS**

Class I

Angular, 0.25" to 1.5" graded stone, including a number of fill materials that have regional significance, such as coral, slag, cinders, crushed stone and crushed shells.

Class II

Coarse sands and gravels with maximum particle size of 1.5", including variously graded sands, and gravels containing small percentages of fines, generally granular and noncohesive, either wet or dry. Soil types GW, GP, SW, and SP are included in this class.

Class III

Fine sand and clayey gravels, including fine sands and sand-clay mixtures, and gravel clay mixtures. Soil types GM, GC, SM, and SC are included in this class.

Class IV

Silt, silty clays, and clays, including inorganic clays and silts of medium to high plasticity and liquid limits. Soil types MH, ML, CH, and CL are included in this class.

Class V

This class included the organic soils, OL, OH, and PT as well as soils containing frozen earth, debris, rocks larger than 1.5" in diameter, and other foreign materials. These materials are not recommended for bedding, haunching, or initial backfill.

CITY OF TOMBALL
ENGINEERING & PLANNING DEPARTMENT

**BEDDING AND SOIL CLASS
DETAIL**

APPROVED BY COT:

ENGINEERING & PLANNING DEPARTMENT
EFFECTIVE October 2024

SHEET 001 OF 001 DWG NO: COT GAS-16