NOTES:
1. PLUG SUPPORT SHALL BE INSTALLED AT ALL LOCATIONS WHERE HEAVING SUBGRADE CONDITIONS ARE LIKELY TO OCCUR, AS DETERMINED BY THE CITY ENGINEER.

2. THE CITY ENGINEER WILL PROVIDE THE SIZE, LENGTH, AND MATERIAL OF PILE NEEDED TO CARRY THE CAPACITY SHOWN ON TABLE 1, BASED ON ACTUAL CONDITIONS REVEALED AT TIME OF CONSTRUCTION.

NOTES TO SPECIFIER:
1. INCLUDE THIS DETAIL ONLY IF THE GEOLOGICAL REPORT INDICATES THAT HEAVING SUBGRADE CONDITIONS ARE LIKELY TO OCCUR. IF THIS CONDITION IS DETERMINED BY THE GEOLOGICAL ENGINEER, NOTIFY THE CITY'S PROJECT MANAGER.

2. ALWAYS INCLUDE COMPRESSED STONE SUPPORTED MANHOLE FOR UNSTABLE SUBGRADE WITH THIS DETAIL.

3. WHERE SOIL STRENGTHS ARE MINIMUM AT MANHOLE LOCATIONS AND THE GEOLOGICAL ENGINEER INDICATES THAT THE SOIL CONSTRUCTION REQUIREMENTS MAY NOT BE SATISFIED, PROVIDE A FLEXIBLE PLUG SUPPORTED MANHOLE. THIS DETAIL IS TO BE USED FOR SUCH SITUATIONS WHERE THE MANHOLE FOUNDATION HAS BEEN DETERMINED TO BE FLEXIBLE. MANHOLE SUPPORTS ARE RECOMMENDED FOR SUCH SITUATIONS.市の設定が制限される場合は、この詳細を含むことが推奨されます。この詳細は、土壌の強度が最低である場所、または地質エンジニアがその条件が不十分であると判断した場合に使用されます。マンホール基礎が柔軟である場合にマンホール支持を推奨します。

4. PROVIDE APPROPRIATE PILE SPECIFICATIONS.

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
SANITARY SEWER
PILE SUPPORTED MANHOLE
FOR UNSTABLE SUBGRADE
(Not to Scale)

DATE: OCT 01, 2002
ENG. NO: 02082-04