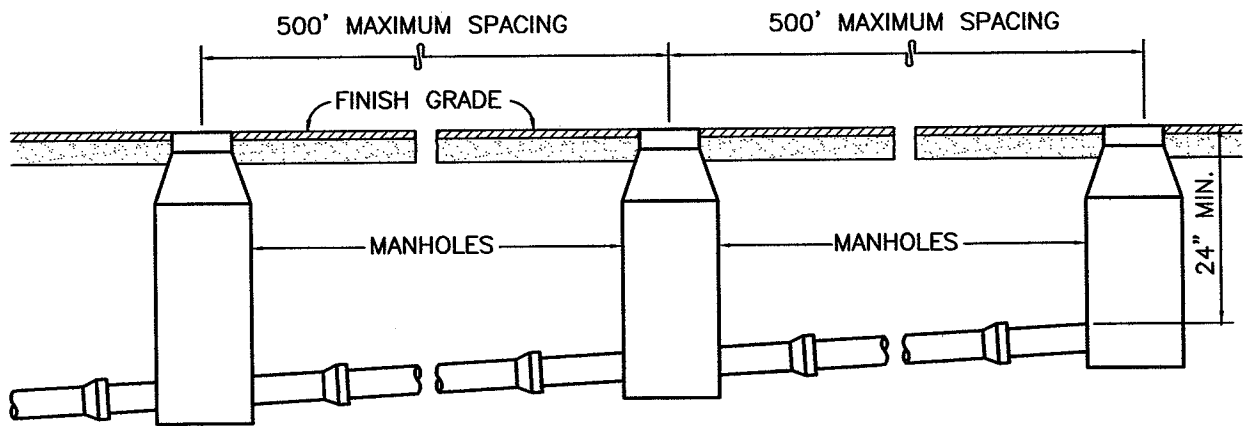




NOTES:

1. All pipe with less than 30" of cover shall be Class 50 D.I.P. with internal lining such as Griffin Pipe Products Co. "H₂ Sewersafe".
2. Minimum cover shall be 24" unless otherwise specified by the City Engineer.
3. Manhole shall be installed at ends of all public sewer lines over 200' in length, at all intersecting public sewers, and where any line larger than 6" diameter connects to the public sewer system. The City Engineer may waive this requirement in individual cases.
4. All connections to sewers shall be made at existing wyes unless approved by the City Engineer.
5. City Engineer shall be supplied with an "as-built" plan showing location of all laterals and invert elevations of all manholes.
6. No connection into any trunk sewer main (18" diameter or larger) shall be made without the installation of a manhole. The City Engineer may direct the installation of a local sewer main parallel to a trunk sewer to serve new developments.
7. Sewer mains shall be designed for a minimum velocity of 2.0 f.p.s. when flowing full. Velocities less than 2.0 f.p.s. may be approved by the City Engineer based on documentation submitted by the Design Engineer. If main is flowing full, velocities less than those developed when using the data below will not be considered. A Manning's "n" value of .0013 shall be used for all design.

PIPE SIZE, Ø	6"	8"	10"	12"	15"	18"
MIN. SLOPE (FT/FT)	0.0024	0.0020	0.0016	0.0012	0.0008	0.0008

8. Where approved, tap to existing main line. Use gasketed saddle retained with a stainless steel, brass or bronze strap. All sewer main taps shall be accomplished with an appropriate tapping machine. A cut-in wye retained by sewer repair couplings with external stainless steel shear rings may be used in lieu of saddle taps.
9. Sanitary sewer shall be Vitrified Clay Pipe ASTM C-700 with C-425 Type I joints or C-594 sewer repair couplings with external stainless steel shear ring. P.V.C. may be used subject to provisions of S-11 and this drawing.
10. Clay pipe shall have a metallic detectable tape placed in the trench one foot above the top of pipe, labeled "Caution Sewer Line Below".

ENGINEERING DEPARTMENT

CITY OF MERCED, CA.

SANITARY SEWER DATA

S-8

DRAWN: KGE

APPROVED BY:

DATE

DATE: 1/02

David L. Tucker

3/17/08

REVISED: 3/17/08

CITY ENGINEER

SHEET

OF