ENGINEERING PLAN REQUIREMENTS

1. The sewers, drains, or pipes, to determine elevations for the
   drainage features shall be located in their plans, preferably on the
   plan.

2. All drainage features (catch basins, manholes, cross drains, etc.)
   shall be located on other plans (profile drawings).

3. All sewer features (manholes, gravity man, sewers, etc.) shall be
   detailed on the sewer layout drawings, with clear details
   indicating the location of pipes, valves, and other pertinent
   information.

4. Sewage disposal (sewer discharge) shall be reserved for sewage pipe
   only. Sewage disposal shall not be included on sewer
   referencing to drainage.

5. It is preferred that electrical power to lift stations be 3-phase
   whenever possible.

6. Electrical design, coordination, and layout for new sewer lift
   stations are required, and shall be stamped and signed by a licensed
   electrical engineer.

7. Exception to the state standards (e.g., Paragraph 12.3) is allowed for
   non-geographic systems if not accepted at any lift station.
   Deviations shall be approved by the engineer.

8. The boundaries of sewer pipes and pipes-in-ground for sewer lift
   stations shall be shown on the plans.

9. The boundaries of sewer pipes shall be shown on the plans.

10. Lift stations shall be located as far as possible from the main
     trunk of the nearest street of the city, with the exception of
         those where the surrounding grade is higher.

11. To avoid overloading manholes, sewer force main should not
     connect to an existing sidewalk.

12. Sewer lines (main sewer lines) shall not be located below drainage
     catch basins/structures.

13. For special force main construction, "no release of valley" is required
     at each point in the force main (no valley relief valued).

14. Construct the drainage systems prior to registering
     sewer pipe in the sewer.

15. A square pipe is required for all sewer portions of force
     main (force pipe). A square pipe shall be placed every 4 ft.
     Space shall be equal on both sides of the pipe.

16. Permissible flow calculations are required for gravity main pipe that
     is greater than equal to 4 inches. In addition to the main trunk,
     when discharging full, it is required to be less than 2.5 feet per
     second. Calculations do not include any allowance for the design.

17. The minimum elevation level for lift stations will be no
     less than three feet (3) above the surface of the street.

18. Lift stations shall be located near the centerline, or at
     other approximate locations, to reduce the possibility of being
     obstructed by streets.

19. A letter of no objection is required from the sewer owner if a
     proposed sewer line is located within a public or private right-of-
     way.

TEHACHAPI PAHON CONSORTIUM GOVERNMENT
SEWER-POLLUTION CONTROL DIVISION
ENGINEERING PLAN REQUIREMENTS

PROJECT NUMBER
441-116-00E
LOCATION
MANSFIELD
Typical Trench Section for Open Cutting of Concrete Roadways

Typical Trench Section for Open Cutting of Concrete Driveways & Sidewalks

Standard Sewer Force Main Trench Details

Typical Gravity Sewer Pipe Trench Section with Solid Sheet Pile Left in Place

Standard Trench in Existing Roadway Details

Detail of Restrained Pipe & Fittings

Typical Gravity Sewer Trench Section with Special Foundation

Note: No Limestone is Not Allowed for Foundation Material