



NOTES:

1. CONCRETE ENCASEMENT OR INSULATION WILL ONLY BE INSTALLED IF SPECIFICALLY REQUIRED ON THE CONSTRUCTION DRAWINGS.
2. CONCRETE ENCASEMENT WILL BE IN ACCORDANCE WITH THE STANDARD DETAIL FOR ENCASEMENT UNLESS OTHERWISE SPECIFIED.
3. IF PIPE IS ENCASED THE LOWER FITTINGS WILL BE RODDED TO RETAINER CLAMP 10 FEET INSIDE OF CONCRETE ENCASEMENT.
4. IF PIPE IS NOT ENCASED THE PIPE BETWEEN LOWER FITTINGS SHALL HAVE RESTRAINED JOINTS.
5. ALL RETAINER GLANDS OR RESTRAINED JOINTS SHALL BE WRAPPED IN POLYETHYLENE.
6. ALL PIPE SHALL BE WRAPPED IN POLYETHYLENE IF CORROSIVE SOILS ARE ENCOUNTERED.
7. THE MINIMUM DISTANCE FROM THE OUTSIDE WALL OF THE UTILITY BEING CROSSED TO THE CENTER OF THE LOWER BEND SHALL BE EQUAL TO THE DISTANCE FROM THE TOP OF THE UPPER UTILITY TO THE TOP OF THE WATER MAIN. THIS MINIMUM DISTANCE SHALL BE AS MEASURED PERPENDICULAR TO THE UPPER UTILITY.
8. LOWER FITTING SHALL BE RODDED TO UPPER FITTING IF A PIPE JOINT EXISTS BETWEEN THESE FITTINGS.
9. UPPER FITTINGS SHALL BE RODDED TO VALVE.
10. VALVE SHALL BE RODDED A MINIMUM OF 20 FEET FROM THE CROSSING.

REVISED 10-08-03 CADD DRAWING BY GTS CONSULTANTS, INC.

DATE: JAN. 1991
 DRAWN: G.G.&J.T.R.
 SCALE: NONE

**LAKWOOD TOWNSHIP
 MUNICIPAL UTILITIES AUTHORITY**

**VERTICAL DEFLECTION
 DETAIL**