ed or plans, and shall be thoroughly brick or concrete bottoms. Brick shall be set in mortar of 1:3 mix and the interior walls shall be plastered with a coating of 1:2 cement mortar one half inch thick as shown on plans. Invert shall be formed to conform to the lower half of the pipe. Flow channels shall be made in the bottom of the manholes connecting the inlet and outlet pipes. If bases are of different diameter, the channels shall taper uniformly.

LAMPHOLES

12. Lampholes shall be located and constructed as indicated on the plans, and when placed on a angle of the alignment of a manhole curve shall be so wider.

PIPE UNDER TRACKS

13. Where sewer line is proposed to cross railroad tracks, as shown on plans, cast iron pipe shall be used, laid so that all joints shall comply with Class B and be caulked with oakum and lead. Each joint shall be made in the same manner as specified for vitrified pipe, using Ockum and cement mortar.

TESTS FOR LEAKS

14. Before final acceptance of the sewer, all joints shall be carefully inspected for defects. Such sections of the sewer as laid below the ground water level shall be tested for leakage by closing the upper end of the section and observing quantity of water entering, and flowing thru the sewer. If this quantity is more than is necessary for the efficiency of the sewer in the opinion of the Commissioner, the contractor shall make necessary repairs at his own expense.

EXCAVATION OF TRENCHES

15. Bidders must examine on the ground and judge for themselves the nature of the excavation to be made, and the work to be done. The earth from the excavation to be made in the future yard and other contracts to grade shown on profile.

ALIGNMENT

16. No bends in the alignment will be permitted except where manholes or lampholes are provided as shown on the plans.

GRADE

17. No less than the line will be permitted. The pipe line throughout its entire length shall be laid on grades shown on plans and profiles.