

## SCHEDULES.

## FIRST SCHEDULE.

## SPECIFICATION FOR PIPE-LAYING.

All pipes shall be double-glazed stoneware, truly cylindrical, and of uniform bore and thickness. The diameter of a pipe shall mean its internal diameter, and shall not be less than the size specified. They shall be thoroughly sound, well-burnt and glazed, perfectly straight, and free from blisters, scabs, cracks, and other imperfections.

*Concrete.*—Concrete shall be composed of not less than one part of hydraulic lime to three parts of gravel and two parts of sand, or five parts of fine scoria ash. These materials must be thoroughly mixed whilst dry, and then be turned over three times whilst being wetted from the rose of a watering-can.

*Sand.*—Sand shall be sharp, coarse, and entirely free from all impurities and dirt, and shall be washed if necessary.

*Gravel.*—Gravel for concrete shall be perfectly clean, and free from soil, clay, dust, or other impurities, must be screened, and shall be washed if necessary. None shall be used that cannot be passed in any direction through a one-and-a-half-inch ring.

*Cement.*—Cement of approved brands and quality only shall be used.

*Mortar.*—Mortar shall consist of one part of Portland cement to two of sand. It shall be thoroughly mixed with as much clean water as is necessary to form a thick paste, and none but freshly made mortar shall be used.

*Laying and Jointing.*—Trenches for pipes shall be cut straight and true, and shall be evenly graded before the pipes are laid; they shall be of such widths as to allow of the pipes being properly jointed, and have three inches of concrete all round to permit of a thorough inspection. The pipes shall be laid straight and true to line and grade. The spigots shall in every case be fitted close home in the socket, and the space between the spigot and the faucet shall be concentric and well filled with cement mortar. After each pipe is joined the interior shall be thoroughly well cleaned out before another length is laid. Tapered pipes shall in all cases be used where different-sized pipes are connected.

*Stoppers.*—All provisional junctions and access openings to siphons shall have plugs set in and covered by approved puddle clay, and shall be left airtight.

*Roots.*—Where roots exist their ingress into the pipes must be prevented by surrounding the joint with three inches of concrete.

*Wet Ground.*—In wet or soft ground a layer of concrete, broken metal, or gravel must be spread under the pipe of sufficient thickness to ensure a good and sound foundation.

*Filling over Pipes.*—The filling round pipes shall be carefully packed and consolidated. The filling over pipes shall be inserted in layers not exceeding twelve inches in thickness, and each layer shall be carefully rammed. Where trenches are made in streets the surface of roadways and footpaths shall be left in a condition satisfactory to the Inspector.

## SECOND SCHEDULE.

## SPECIFICATION FOR PLUMBERS.

*Cast-iron Pipes.*—Cast-iron pipes for soil and ventilation to be not less than five-sixteenths of an inch thick, except in the cases provided for, and to be large enough in the socket to allow of three-sixteenths of an inch caulking all round.

*Lead Pipes and Traps.*—Lead soil-pipes, wastes, traps, vents, bends, &c., to be drawn pipes (not seamed), approved and stamped by the Inspector, and to be formed of lead weighing not less than 6 lb. per superficial foot.

*Joints.*—Joints in cast-iron pipes to be made with a ring or two of spun yarn, and then soft lead run in and caulked. Joints between lead and cast iron to be made in a similar manner, but to have a brass ferrule soldered on to end of lead first. All lead-to-lead joints in any portion of main building to be wiped-soldered. All bedded joints for water-closets to be made with genuine red and white lead putty. Joints for cast-iron pipes of three-sixteenths of an inch thickness shall be made of lead as above, or of such other material as the Inspector shall approve.

*Waste-pipes.*—Waste or overflow pipes from baths, wash-tubs, cisterns, and sinks shall be of 6 lb. lead, but where in the opinion of the Board's Inspector a heavier weight may be required his instructions shall be complied with.

## WORKS TO BE EXECUTED BY LICENSED DRAIN-CONNECTORS ONLY.

It shall not be lawful for any person, other than a licensed drain-connector under this by-law, to execute any of the works hereinafter specified:—

- (a.) To lay any private drain.
- (b.) To alter, reconstruct, extend, repair, open up, or remove any private drain.

- (c.) To connect any private drain with another private drain or sewer.
- (d.) To disconnect any private drain from another private drain or sewer.
- (e.) To affix, repair, or remove any disconnecting trap or gully-trap or other trap in connection with a private drain.

## WORK TO BE EXECUTED BY LICENSED PLUMBERS ONLY.

It shall not be lawful for any person other than a licensed plumber, duly licensed under this by-law, to execute any of the works hereinafter specified:—

- (a.) To affix or repair any cistern in connection with a water-closet.
- (b.) To connect any cistern with or disconnect any cistern from any water-closet.
- (c.) To affix, or repair, or remove any basin or pan of or belonging to any water-closet.
- (d.) To affix, repair, or remove any ventilation-pipe in connection with a water-closet, or do any other work relating to the ventilation of traps in connection with water-closets.
- (e.) To connect a water-closet with or disconnect a water-closet from the soil-pipe thereof.
- (f.) To lay, or set up, or repair, or remove the soil-pipe of or belonging to any water-closet.
- (g.) The trapping of any work in connection with trapping water-closets.
- (h.) Any work in connection with the laying-on of the water to and the trapping and ventilating the traps of urinals.
- (i.) The affixing, repairing, or removing of lead and other safes under closets, baths, sinks, and other conveniences.
- (j.) The affixing, repairing, or removal of overflow of waste-pipes connected with baths, sinks, and sanitary conveniences or appliances of any description.
- (k.) The affixing, setting-up, repairing, or removal of the ventilation shafts required under this by-law, and the caps or cowls thereof, and connection of the said shafts with their disconnection from drains.
- (l.) Any plumbing work in connection with any sanitary convenience or appliance required to be provided, affixed, or set up by virtue of this Part of the by-law.

## DIVISION OF WORK AS BETWEEN LICENSED DRAIN-CONNECTORS AND PLUMBERS IN CERTAIN CASES.

The licensed drain-connector shall lay the private drains to the point where the connection is to be made with the soil-pipe of a water-closet. This connection shall be made by the licensed plumber. The licensed drain-connector shall put in the junction and lay all stoneware pipes required for the ventilation shafts referred to in this by-law, and the plumber shall make the connection.

## HOUSE CONNECTION.

The Board will, when requested so to do in writing by any ratepayer, undertake and carry out the work of private house connection, excepting plumbing work. The cost of such connection shall be estimated by the Engineer or other official appointed by the Board for that purpose, and shall be prepaid by the ratepayer to the Board when lodging his request. The Board will charge only the actual cost of making the connection, and if on the completion of the work the amount deposited with the Board shall be insufficient the deficiency shall at once be paid to the Board by the ratepayer. Any surplus will be refunded.

Schedule Form No. 1.

One Tree Hill Road Board.

(Part of By-law No. , 19 .)

LICENSE (PLUMBER OR DRAIN-CONNECTOR).

No. ....

Mr. , of , is hereby appointed a licensed  
for the purposes of the above by-law for the year  
ending 31st March, 19 .

Dated this day of , 19 .

....., Clerk.

Schedule Form No. 2.

One Tree Hill Road Board.

(Part of By-law No. , 19 .)

APPLICATION FOR CONNECTION WITH SEWER.

To the Clerk, One Tree Hill Road Board.

I HEREBY apply that the proposed drains on my property,  
situate in Road [Street], One Tree Hill, be connected