

ORDER NO. 1.

AN ORDER REGULATING PLUMBING AND SEWER  
CONNECTIONS,  
AND THE USE OF THE SAME, IN SANITARY  
DISTRICT NO. 1 OF MARIN COUNTY, CALIFORNIA.

The Sanitary Board of Sanitary District Number 1  
of Marin County, California, do ordain as follows:

Section 1. Every residence building in sanitary District No. 1 of Marin County, State of California, now in use, or which may hereafter be built, shall have a complete system of plumbing and drainage constructed connecting with the sewers of said District, as hereinafter provided. All sewage, consisting of the ordinary discharge from water closets, urinals, wash stands, bath tubs, laundry tubs, kitchen sinks and all other similar fixtures, shall be disposed of through said system and District sewers, and in no other way.

No rain water, from roofs, courts, or areas, or from sub-surface, or surface drains, shall be allowed to discharge into said system, or into said District sewer.

Provided that the Sanitary Board of said District may permit and direct that rain water from any of said courses, shall be discharged into said system, or into said District sewer, for flushing purposes only.

No garbage, ashes, sand, rags, wood, large paper, or any refuse whatever, except sewage, shall be deposited in said system, or in any of the sewers of said District.

Section 2. No person, firm, or corporation, shall connect a system of plumbing and drainage with the sewers of said District, or discharge any sewage therein, until all the requirements hereinafter mentioned have been complied with, and a written permit, ap-

proving said plumbing system and authorizing the connection with said District sewers, has been granted therefor by the sanitary Board of said District, or their authorized agent.

#### PLUMBING.

Section 3. Every plumbing system shall consist of a "House sewer", which shall extend from the District sewer on true lines and grades to a point three feet outside of the foundation of the building; a "House Drain" which shall extend from the upper end of the House sewer, outside or within the foundation line of the building, to the foot of the "Soil Pipe"; a "Soil Pipe" receiving the discharge from one or more water closets, which shall extend from the upper end of said House Drain in a vertical direction to a height of two feet above the point at which it intersects the roof; a "Waste Pipe", receiving the discharge from a fixture or fixtures, other than a water closet, which shall extend from said House Drain or soil Pipe horizontally and vertically to a height of two feet above the point at which it intersects the roof of the house; a water closet; a sink and such other fixtures required by the owner of the house as may be approved by the sanitary Board of said District, together with the traps, vent pipes and other appurtenances hereinafter mentioned.

#### HOUSE SEWER.

Section 4. The house sewer shall be constructed of iron stone vitrified pipe laid with cement joints, or standard cast iron pipe laid with lead joints. The size of the house sewer shall be four inches in diameter where it drains a house of fourteen rooms or less; and five inches in diameter for all houses of larger size. All joints on iron stone pipe shall be made with Portland cement, and each joint of pipe, when laid, shall be properly cleaned out by a suitable scraper before the succeeding

joint is put in place.

#### HOUSE DRAIN.

Section 5. The house drain shall be constructed of standard cast iron pipe four inches in diameter laid with lead joints. The grade shall not be less than one-quarter of an inch to the foot. Heavy brass male thread "clean outs" of at least 1/8th of an inch in thickness, with 3-16 of an inch thickness in the cover, the same to have a solid cast square head of 1 1/2 inches square and 1 inch in height, shall be placed at the end of each horizontal line of drain pipe and waste pipe. In no case shall the clean out, provided for the main horizontal cast iron drain pipe, be of a diameter of less than four inches. In all other drains and wastes the clean outs shall be of the same size as the pipes they serve.

#### SOIL PIPE.

Section 6. The soil pipe shall be constructed of standard cast iron pipe four inches in diameter laid with lead joints. All soil and waste pipes shall be properly fastened and secured with either heavy wrought iron straps or hooks. If hooks are used they shall be forged out of one piece of iron, not welded. All straps and hooks shall be in place before any work is tested.

#### WASTE PIPE.

Section 7. The waste pipe shall be constructed of standard cast iron pipe with lead joints, provided, that the extension of the waste pipe, from the connection of the highest fixture, shall be constructed of wrought iron galvanized pipe.

#### VENT PIPE.

Section 8. All air-pipes shall run of undiminished size, separately or combined, through the roof, and for two feet above,

and left open or they may be connected with the soil pipe or waste pipe at a point not less than 3 1/2 feet above the connection of the highest fixture. Ventilating pipes shall be run with as few bends as possible, and the branches shall be connected to main vent at an angle not less than forty-five degrees, and be increased in size every thirty feet. When combined the vent pipes shall be increased in size according to the following table.

Branch vents of water closets shall not be of a size less than the following:

The term "Branch Vent" as here applied shall be construed to mean all that vent pipe located between the fixture and the point where the vent joins the main vertical vent.

Four water closets may be vented into a 2 1/2 inch branch vent.

Five to eight water closets may be vented to a 3 inch branch vent.

Nine or more water closets may be vented into a four inch branch vent.

Three wash basins, baths or similar fixtures may be vented by a 2 inch vertical vent pipe.

Six similar fixtures by a 2 1/2 inch vertical vent pipe.

When more than 12 fixtures, they may be vented by a four inch vertical vent pipe when the vent does not exceed twenty-five feet, then the entire main vent shall be of two inch pipe.

When one and one-half inch branch vents are used on fixtures the said branch vent shall not exceed five feet. In the calculation of the relation of basins, baths and similar fixtures toward water closets, it shall be reckoned that four basins or baths or similar fixtures shall equal two water closets, and so on, at that ratio.

No vent pipe shall be connected with the side of a horizontal line of waste pipe.

Where vent pipes branch into one another, and when they branch into the soil pipe, the branch fitting shall be three feet, six inches, from the floor line.

No soil, waste or vent pipe shall terminate at a point within ten feet of the top line of any door, window, house tank, or at a point below the level thereof.

Every vertical soil, waste or vent pipe (unless otherwise provided for) shall extend full bore, two (2) feet above the roof or coping and be continued to a point of at least 10 feet from any opening of the house or opening of an adjoining building. No caps or cowls shall be affixed to the top of any ventilating pipe, though a strong wire basket shall be used. Intercepting traps are strictly prohibited.

There shall be no traps placed at the foot of vertical soil or waste pipes.

The arrangement of drain, soil, waste and vent pipes shall be as direct as possible. All changes in the direction of drain, soil or waste pipes shall be made with Y branches, 1-16, 1-6 or 1-8 bends. Offsets may be used, provided that the angle they present is not less than that represented by a 1-6 bend.

No soil, waste or vent pipe of any kind shall be built into brick, stone or concrete walls; when necessary to conceal pipes of this class they must be run in suitable reveals or recesses.

No brick, sheet metal or earthenware flue shall be used as a sewer ventilator.

#### TRAPS.

Section 9. Every water closet, urinal, sink, basin or

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bath, or set of wash trays or similar fixtures shall be separately and effectively trapped. The traps shall be placed as near to the fixtures as possible, and in no case more than two feet from the fixtures. In no case shall the trap of one fixture connect with the trap of another.

When wash basins or sinks are placed in bed chambers or in pass closets, vent pipes of same shall in no case be connected with soil pipe or water closet vent. This section covers all rooms, except bath rooms.

Traps shall be protected from syphonage by special air-pipes of lead, wrought or cast iron, of a size not less than the trap they serve, and, if to supply air to a water closet, not less than two inches in diameter. At the end of all horizontal runs of vent pipe a screwed plug shall be placed, also at the bottom of all vertical vent lines, where sediment is liable to collect, a suitable drip plug not less than one foot long shall be placed.

If the plug is at the foot of a vertical concealed vent, then it shall be so placed as to admit of repairs. In no case shall these plugs and drips be of a size less than the vents they serve.

No fixture shall have a trap of a diameter less than one and one-half inches. Urinals shall not have a trap larger than one and one-half inches in diameter.

Every "washout" water closet must be back-vented from the trap above the floor line, except when it is the highest fixture and located within two feet of the vertical soil pipe.

#### WATER CLOSETS AND FIXTURES.

section 10. All water closets within a building must be supplied from separate tanks, the water of which shall be used for no other purpose. A group of water closets may be supplied from one

tank. Hopper closets shall not be allowed. Water closets shall be supplied from tanks, the down or flush pipe shall in no case be less than one and one-fourth inches in diameter. No rubber connections will be allowed between water closets and vent pipes. No interior water closet shall be set in putty, plaster or similar substance; but shall be connected to soil with a properly constructed rubber gasket and brass flange combined. Pan water closets are strictly prohibited.

When water closets are so constructed that the trap is a part of the closet, they shall be all earthenware or enameled iron, or a combination of these materials. All water closet receivers shall be of earthenware or enameled iron. No iron, stone, cement, brick, wooden or porous substances shall be used. This shall apply to both single water closets and water closets built in series or ranges.

No wooden sinks or wash trays will be allowed on the premises of any residence or dwelling.

Each and every compartment, wherein a water closet or urinal is situated, shall be ventilated by means of a window opening directly to the outside of the building, or into an air-shaft.

All fixtures and their appurtenances shall be simple and effective in design; they shall be so placed as to be well lighted, perfectly ventilated and easily accessible. Their exposed surfaces shall be finished and shall not be enclosed.

Every plumbing system and each part thereof shall at all times be kept clean and in good repair. All traps shall be kept filled with water.

Slop hoppers, cess pools and all similar fixtures shall not be erected or used.

No wash-out toilet shall be installed in main building; they shall only be allowed on back porches, or in out-

houses.

MATERIAL.

Section 11. All material shall be of the best quality and free from defects.

All standard heavy cast iron pipe and fittings shall be of the following sizes and weights:

The weight, size and maker's name shall be cast on each pipe and fitting.

(The weight of cast iron pipe )

Diameter.	Weight per lineal foot.
2 inch	5 1/2 pounds.
3 inch	9 1/2 pounds.
4 inch	13 pounds.
5 inch	17 pounds.

All joints on cast iron pipes and fittings shall be made with suitable packing of oakum, properly caulked, and run full with molten lead.

All cast or wrought iron pipes and fittings, used for soil, waste or vent pipes, shall be coated both outside and inside with coal-tar pitch, applied hot, except vents, which shall be of galvanized wrought iron, with fittings of the same material.

When lead waste pipe is used it shall intersect at the same angles as given by Ys. 1-16, 1-6 or 1/8 bends. All connections of lead with cast or wrought iron pipe shall be made with brass ferrules of the same size as lead pipe and connected to same by a wiped joint, and be properly caulked into the fittings or opening with oakum and molten lead.

PLANS.

Section 12. The drainage and plumbing of all buildings,

both public and private, which are now, or which may hereafter be, erected in said District and all alterations and additions thereto, shall be executed in accordance with plans approved in writing by the said Sanitary Board, or their authorized agent and not otherwise.

#### COMPLETE PLANS.

Section 13. Drawings and descriptions of said drainage and plumbing, shall, in each case, be submitted to the Plumbing Inspector of said District and shall be filed in his office.

If upon careful examination said plans and descriptions are found to conform to the above rules and regulations, and three days have elapsed from the date of filing, said plans shall be approved and a permit to execute the work therein described shall be issued to the Plumber by said "Inspector" upon the payment by said Plumber of the fees required therefor.

Provided that said Sanitary Board, or its authorized agent, shall examine the plans for all plumbing systems heretofore constructed in said District, shall inspect the work described therein and if said work is found to be done in accordance with said plans and in a good and substantial manner, said plumbing system shall be approved and its connection with the district sewers authorized.

#### INSPECTION.

Section 14. Upon the completion of all sewer, drain, soil, waste and vent pipes, they shall be examined by the Plumbing Inspector, appointed by said Sanitary Board, and no pipes or work shall be covered until approved by him.

All drain, soil, waste and vent pipes shall, before any fixtures are connected, be filled with water and kept filled until said Inspector has finished his examination of the

work and found all joints water tight.

Upon the completion of the plumbing system the said Inspector shall examine the same and if it is found to conform to the plans and descriptions therefor, filed as aforesaid, and to conform to the within described regulations, he shall issue a certificate of approval.

#### WORKMANSHIP.

Section 15. All work shall be done in a prompt, thorough and workmanlike manner, under the direction and control of the Plumber to whom the permit is issued; and to the satisfaction of the Plumbing Inspector.

The Plumbing Inspector shall not issue a permit to any Plumber who has violated any of the regulations of the said sanitary Board, without the written consent of said Board.

The Plumbing Inspector shall receive, as recompense for his services, the following fees: ✓

For the examination and filing of Plans and descriptions, \$1.00; for each examination and test of said pipes, \$2.50; for such examination of work, which has been reported by said Plumber, as completed, \$2.50; for each certificate of approval an amount equal to two (2) per cent. of the cost of the work which is inspected.

Each fee shall be paid in advance by said Plumber.

#### PENALTY.

Section 16. Any person, firm, or corporation, violating any of the provisions of this Ordinance, shall be deemed guilty of a misdemeanor, and, upon conviction thereof, shall be punished by a fine of not less than \$25.00, or more than \$50.00.

This order shall take effect from and after the

day of its passage.

Section 17. Order No. 1 of said Sanitary District No. 1, of Marin County, California, and all other orders, and parts of orders, in conflict herewith, are hereby repealed.

Passed and adopted by the following vote, this 7th day of October, 1908:

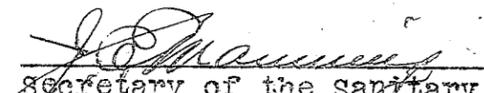
Ayes: R. J. Davis, J. H. Gilhuly and L. R. S. Holmes, and J. E. Manning.

Noes: None.

Absent: A. J. Dibblee.

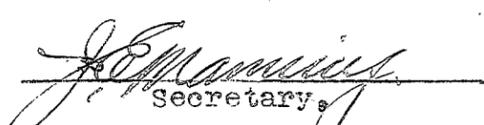
Attest

  
President of the Sanitary Board  
Sanitary District No. 1,  
Marin County, California.

  
Secretary of the Sanitary  
Board of Sanitary District  
No. 1, Marin County, Cali-  
fornia.

10/7/08

No further business appearing, the meeting adjourned.

  
Secretary.

Meeting of the Sanitary Board of Sanitary District  
No. 1, of Marin County, California, held at the Town Hall at  
San Anselmo; California, the 11th day of November, 1908, at the  
hour of eight o'clock P. M.

Present: Commissioners Davis, Holmes and Manning.

Absent: Commissioners Dibblee and Gilhuly.

President Davis in the chair.

Commissioner Manning introduced the following Order  
to be known as and numbered Order No. 2, and moved its adoption.

The motion to adopt said Order was seconded by Com-  
missioner Holmes, and upon being put to a vote, was passed and  
carried by the following vote:

Ayes: Commissioners Davis, Holmes and Manning.

Noes: None.

Absent: Commissioners Gilhuly and Dibblee.

Said Order No. 2 is in the words and figures follow-

to-wit: