

CITY WATER WORKS ELECTION.

ELECTION NOTICE.

THERE WILL BE A SPECIAL

Election in this city on SATURDAY, JULY 20th, 1872, in conformity with an act of the Legislature approved March 30th, 1872, entitled "An act to provide the city of Sacramento with a better supply of water," when the following propositions will be voted upon:

First—Shall the Board of Trustees be authorized to create a debt of \$165,000, or so much thereof as may be required, as provided in said act.

Second—Which of the two following plans and bids, selected by the Board of Trustees, shall be accepted.

PLAN, SPECIFICATIONS AND BID OF THE HOLLY MANUFACTURING COMPANY.

The Holly Manufacturing Company, a corporation duly organized under the laws of the State of New York, and having its chief place of business in the city of Lockport, in said State of New York, in response to an advertisement calling for plans, specifications and bids for furnishing Water Works Machinery for the city of Sacramento, dated April 15th, 1872, hereby propose to furnish all materials for and construct in a good and workmanlike manner for said city of Sacramento the following:

Two pairs of double cylinder quarter crank condensing piston steam engines, mounted upon a heavy iron arched frame. The four cylinders for the engines above described are to be each sixteen by twenty-seven inches, and so connected at the crank shaft as to take steam at eight different points in each revolution. There is also to be attached to the above frame four double acting pumping engines, each driven directly by one of the above-named steam cylinders—the said pumping engines to be each ten and one-fourth inches diameter and twenty-seven inches stroke, and take suction at eight different points in each revolution in order to give a uniform flow and steady pressure of water in the mains and pipes of the city; and also the necessary steam boilers, not less than three in number, of sufficient size and capacity to generate steam and enable the machinery to do the work hereinafter guaranteed. Also, Holly's Patent Hydrostatic Pressure Gauge for controlling the pressure of water in the mains and enabling the operator to vary the same for domestic uses or fire protection. Also, Holly's Patent Variable Steam Cut-off, so arranged as to be operated upon by the pressure of the water in the mains and pipes for the purpose of regulating the supply of steam for the engines in the proportion due to the constantly varying demand for water by consumers. Also, donkey engine, boiler, feed pump, air pump. Also, the necessary gearing, shafting, couplings, connections, steam pipes and fittings, steam valves, water valves; steam, water and vacuum gauges in engine room; steam gauges in boiler room, one for each boiler; blow-off cocks; try cocks; breeching; fire fronts; grate bars; one rotary steam engine; two Holly's rotary pumps, for the purpose of throwing fire streams, as hereinafter stated, together with all other machinery needed inside the building in which it is to be placed, as hereinafter provided, to make the machinery effective and adapted to the uses hereinafter stated. The said machinery will be delivered and set up ready for use in the city of Sacramento, in a building and upon foundations to be built and furnished by said city of Sacramento, in accordance with plans and specifications which shall be furnished said city by said Holly Manufacturing Company free of expense to said city. The above described machinery includes the connecting pipes between the various parts of said machinery, but does not include suction and discharge water pipes. The city of Sacramento is also to furnish a suitable smoke-stack, and to do all brick and stone masonry, stone cutting and drilling, carpenter and wood work about said building and machinery, and to make suitable connections between the pumps and street mains as soon as the same can be properly done, in order that the machinery may be tested when completed; and in case upon arrival of said machinery the buildings and other preparations for its reception are not completed, the said city agrees to take care of and protect from injury and pay all damages and expenses which may accrue on account of its exposure to the elements or otherwise. The said Holly Manufacturing Company also guarantee that the above machinery shall have power and capacity to furnish, by pumping directly into the street mains, three million gallons of water in twenty-four hours, under a pressure of forty pounds to the square inch. It shall also have power and capacity to furnish and reliably supply water through the distributing pipes to a height which is one hundred feet above the point at which the machinery is set. And the Holly Manufacturing Company also guarantee that the above described machinery shall have power and capacity to throw six one-inch streams of water under a maximum pressure of one hundred pounds per square inch—each one hundred feet high—directly through hydrants and one section of hose without any intermediate power of fire engines or other agency, provided said hydrants are placed upon lines of street mains of suitable size and strength. The said machinery shall be delivered, set up and in operation within eight months from the time when contract is entered into for said machinery, provided said city do what is required of it in season so that the said company are not delayed thereby.

The Holly Manufacturing Company offer to furnish the above described machinery manufactured, set up, adjusted and guaranteed as above for the sum of \$58,000 in the certificates which by the terms of the law and the advertisement of the Board of Trustees of said city of Sacramento they have the option of paying on account of machinery and connecting pipes, it being understood that said certificates are to be payable in gold or its equivalent value. Payment for said machinery and connecting pipes shall be made by said city to the said Holly Manufacturing Company as follows, viz: Twenty per cent of above sum two months from date of acceptance of this proposition; twenty per cent in three months; twenty per cent in four months; twenty per cent in five months from acceptance of this proposition, and the balance of twenty per cent when the machinery and connecting pipes are completed and delivered as above specified. In case there should be blockade of snow or destruction on the line of transportation from other causes, it shall operate to proportionally extend the time for completion and setting up and testing said machinery. We herewith submit plans of above described machinery and connecting pipes marked "A," which exhibit the manner in which the work is to be accomplished. The buildings and foundations for said machinery shall be completed and ready for reception of said machinery within six months from the time of signing and delivery of the contract for said machinery. The above machinery is designed and arranged to perform a two-fold service.

First—It will reliably furnish a supply of water for daily consumption in said city of Sacramento by pumping directly into street mains according to the foregoing guarantees; and

Second—It combines a reserve capacity and power which can immediately be brought into exercise for the suppression of fires without movable fire engines, and far more effectively.

The Holly Manufacturing Company of the city of Lockport, in the county of Niagara and State of New York, having, pursuant to a notice of the Board of Trustees of the city of Sacramento, in the State of California, dated April 15th, 1872, made a bid and proposals for furnishing for said city of Sacramento the plans, specifications, machinery and connecting pipes mentioned in said notice upon the terms and conditions specified in said bid and proposals, now, therefore, in case said bid and proposals shall be accepted by said Board of Trustees, we, the undersigned, do hereby in consideration of such acceptance and of one dollar to each of us paid, covenant, promise and agree and guarantee that the Holly Manufacturing Company will in all things fully do and perform all things in said bid and proposals offered and proposed to be done, and will enter into and execute a contract with said city of Sacramento for furnishing and putting up the machinery and connecting pipes and all other things mentioned and referred to in said proposals, and within the time and in the manner therein specified, and will well and truly in all things do, perform and fulfill all the stipulations and agreements in said contract contained to be done, performed and fulfilled by said Holly Manufacturing Company.

Witness our hands and seals this twentieth day of May, one thousand eight hundred and seventy-two.

T. T. FLAGLER, [seal]

L. F. BOWEN, [seal]

S. H. MARKS, [seal]

CHARLES KEEP, [seal]

AUGUSTUS KEEP, [seal]

JULIUS WETZLAR, [seal]

PLANS, SPECIFICATIONS AND BID OF HORACE ADAMS OF THE I-STREET FOUNDRY.

To the honorable Board of Trustees of the city of Sacramento—Gentlemen: I propose to furnish, under your advertisement of April 15th, 1872, machinery and connecting pipes for water works for the city of Sacramento, set up—upon foundations and brick-work to be furnished by the city authorities—and in running order, according to detailed plans and specification hereunto annexed, and within the required time, the whole work to be done in the city of Sacramento, for the sum of sixty-one thousand seven hundred dollars in certificates of indebtedness authorized by law.

HORACE ADAMS.

Witness: R. B. NORMAN.

Sacramento, June 6th, 1872.

And we guarantee to supply three million gallons of water daily, to be delivered at a pressure not less than forty pounds to the square inch, for daily consumption, and a maximum pressure of one hundred pounds to the square inch; and also guarantee that the height to which water shall be reliably supplied through the distributing pipes is one hundred feet above the point at which the machinery is set.

HORACE ADAMS, Principal,

EDGAR MILLS, Security.

JAMES CAROLAN.

SPECIFICATIONS.

BOILERS.—There shall be four boilers, a, a', a'', a''', (tubular) 48 inches diameter by 16 feet long, with two double furnace fronts, and full furnaces of grate bars; also two double britchings, b, b', and two smokestacks, c, c'; also one steam drum, d, two safety valves, e, e', with steam pipes and globe valves to form the necessary connections with the several boilers; also gauge cocks and two steam gauges.

STEAM PUMPS.—There shall be two steam pumps, f, f', with necessary steam pipes to connect with the steam drum, and the requisite water pipes, globe and check valves to supply water to and through the heater, g, to the several boilers, as shown in the accompanying drawing.

ENGINES.—There shall be two engines, h, h', each having a cylinder of 18-inch bore by 44-inch stroke, with the necessary pipes, etc., to form connections between said engines and the steam drum; also exhaust pipes to the heater and open air.

SPUR PINION AND GEAR.—There shall be keyed on the crank shaft of each engine one spur pinion, i, i', to work with the spur gears, j, j', which are keyed on the intermediate shafts, k, k'; also at the ends of said intermediate shafts there shall be secured the cranks, l, l', l'', l''', which, by connecting rods, m, m', m'', m''', and cross-heads, n, n', n'', n''' (which cross-heads shall be supported by slides), shall work the piston rods of pumps, p, p', p'', p'''.
PUMPS.—There shall be four double-acting pumps, p, p', p'', p''', bore 15-inch diameter and 72-inch stroke, with brass valves and valve seats, cast iron valve chambers, suction pipes with air chambers and delivery pipes.

The suction pipe of each pump shall, for the purposes of this specification, be deemed and understood to extend no farther than the first flange next beyond the air chamber as located in the drawing.

The delivery pipes, r, r', r'', r''', shall, through the valve chambers, s, s', s'', s''', branch pipes, t, t', elbows, u, u', pipes, v, v', and valves, w, w', supply the water to the stand pipe x (which pipe is 48 inches diameter); and through this stand-pipe directly to the street mains through the pipe y; which pipe y shall for the purposes of this specification be deemed and understood as terminating at twenty-seven feet from the center of said stand-pipe.

The stand-pipe x shall have two safety valves and one overflow or surplus water pipe which may be extended upwards to water-tank, but which for the purposes of this contract shall be deemed and understood to terminate at the outer flange of the water gate z, and at a shoot nozzle and blank flange between the said water gate z and the stand-pipe x.