

This PDF is part of the Philadelphia Water Department Historical Collection Accession 2004.071.0001 Frederic Graff Jr. Scrapbook, 1854-1857

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Opening of Fire Plugs.—The recent order of he Mayor to the Lieutenants, directing them to inforce the ordinance relative to the opening of fire lugs, except in cases of fire, is likely to work disdivantageously in some Districts. This, however, ill scarcely lead his most inveterate opponent to ensure him for directing the enforcement of a law which Councils should take an early step in remodeling.

Lieut. Wettmore, of the Ninth Ward, assures us that the use of the plugs is almost indispensable in ertain portions of his police division. For intence, the contractor for cleansing the streets of he city has heretofore had the use of the plugs for he purpose of cleaning the market houses, which is found necessary to wash out from two to three imes a week during the summer season.

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The large quantity of produce exposed for sale long Market st., from Eighth to Broad, causes an ecumulation of offal in the gutter, and the use of he plugs to cleanse them theroughly is indispensible to prevent a stench, and remove stagnated water and fifth of various kinds. There can be no suestion of the necessity for using the public water in a case like this, but the non-enforcement of the aw in this instance would form as great a subject of complaint as the subject now referred to. The redinance should be promptly reconstructed to neet a case like the present.

A Sad Disappointment.

Great indignation has been raised among the advocates of the party in power in consequence of the re-election of Frederick Graff as Chief Engineer of the City Water Works. "A dead set" was made at Mr. Graff, in consequence of his contumaciousness in refusing to join "the Order." It was thought that it was not judicious to allow any person to perform a service for the city who was not bound by the strictest obligations. Mr. Graff refused to "join," and, although it was universally admitted that his scientific attainments and experience were such that his displacement would be very disadvantageous to the general interests, still his stiffnecked rebelliousness was so flagrant that the good of the city was considered nothing to the necessity of administering to him a rebuke, which would have also been of most impressive significance to others in like cases offending. In "American" caucus it was determined to support Frederick Erdman for Chief Engineer. At the election on Tuesday last, by Councils, that candidate received the Know-Nothing support, but quite unexpectedly the Democrats voted for Mr. Graff in solid force, some of the Whigs joined them, and two or three Know-Nothings "bolted" from the caucus nominee. The result was that Mr. Graff received 49 votes, while Mr. Erdman could only count up 44. Weeping, wailing and gnashing of teeth has been the consequence, and much indignation at their defeat is manifested by the "American" politicians. The public, we imagine, will be well satisfied with the result. In capacity, fitness, and practical knowledge, Mr. Erdman is not to be compared to Mr. Graff, and the removal of the latter would have been regarded as an injury to the public. 18 38 2 point sales 1

Trial of the Steam Engine.—Vesterday afternoon, the steam fire engine, "Young America," built in Cincinnati, by Mr. Abel Shawk, was tried in the Moyamensing Prison yard. A large number of persons gathered, and about three hundred were admitted into the enclosure. The engine was drawn from the Tobacco Warehouse by three horses, and reached the prison at \$\frac{1}{2}\text{o'clock}\$, under direction of Mr. Shawk and the Chiet Engineer of the Fire Department, Mr. B. A. Shoemaker. The "Young America" weighs \$\frac{1}{2}\text{ton}\$ tons; has \$\frac{1}{2}\text{circle}\$ eight of the Fire Department, Mr. B. A. Shoemaker. The "Young America" weighs \$\frac{1}{2}\text{tons}\$ tons; has \$\frac{1}{2}\text{circle}\$ eight of the water- one of which is \$\frac{1}{2}\text{ inches in diameter, the pump 7\$\frac{1}{2}\text{ inches with a stroke of \$\frac{2}{2}\text{ inches.}\$ Shortly after \$\frac{3}{2}\text{ o'clock the shavings and pine wood were put into the fire chamber, and at \$20\text{ inmutes past 3}\text{ the torch was applied. In \$\frac{2}{2}\text{ inmutes precisely the stram began to show; in \$\frac{6}{2}\text{ minutes precisely the stram began to show; in \$\frac{6}{2}\text{ minutes and \$20\text{ seconds } 50\text{ pounds. At \$6\text{ minutes the engine was started, and, with \$10\text{ pounds of steam, and \$30\text{ strokes per minute, two streams were thrown, through two sections of hose \$62\text{ feet info me nozzle, one of the streams was through a one-inch nozzle, and the other a sevencighths-inch nozzle, Subsequently a distance of \$132\text{ feet two me hozzles designated by the same streams through the nozzle, or \$23\text{ feet from the nozzles of stream. A single stream out of a one-inch nozzle was also tried, and the distance reached was \$17\text{ feet from the nozzle, or \$23\text{ feet from the nozzle, or \$23\text{ feet from the nozzle, and the other a sevencight sects fo

ARTISTICAL AND ARCHITECTURAL.

Size of Joists.—Will you allow me to ask what the usual method is for calculating the strength of joists required for any given space, and if a floor with a bearing of 15 feet is properly supported by joists 6×2?—P. P.

** Tredgold gives the following rule:—
"Divide the square of the length in feet by the breadth in inches, and the cube root of the quotient multiplied by 2.2 for fir or 2.3 for oak will give the depth in inches." According to this the joists for the bearing named should be 10 inches by $2\frac{1}{4}$ inches, or $9\frac{1}{2}$ inches by $2\frac{3}{4}$ inches, 12 inches apart. Surveying Without Instruments.

Surveying Without Instruments.

It often happens that a surveyor or engineer wishes to determise approximately distances and localities, the following no instruments with him, is compelled to adopt such means as he can get within his real and Surveying contains some good auggestions?

DISTANCES BY MICHOS — Quite an accurate measurement of line of ground may be made by welking over it at a uniforn segar and counting the steps taken. But the bit of all the first acquired. To do this fix the eye on two objects in rire desired in a straight line must be first acquired. To do this fix the eye on two objects in rire desired in one of proper of the country of the c