

THE DRAINAGE SYSTEM.

Something of the Plan About to be Submitted.

City Surveyor Mulleney Gives Reasons Why the Plan Should be Adopted.

The "Record-Union" having asked City Surveyor Mulleney to explain some features of the proposed drainage system, on the adoption of which the people of this city will vote on the 11th of August, that gentleman has submitted the following:

"It is acknowledged that the only feasible plan for disposing of city drainage is to eject it into the river; for this purpose a pumping plant should be constructed at a convenient distance from the river, to which all drainage should be conducted in a conduit of proper capacity.

"The present plan, recently adopted by the Board of Trustees, provides that the pumping station is to be placed at Front and S streets, with discharge pipes leading over the levee and down into the river below low water mark; pumps to draw from a sump or reservoir and arranged so that the actual lift will be only the difference in height between surfaces—not less than two pumps to be placed in position in order to economize for dry weather drainage; then to construct a brick main intercepting sewer or conduit from the pumping station along S to Seventeenth street, where it will receive drainage from the Seventeenth-street sewer—to be placed at a low grade and given proper fall to permit of an extension to the eastern limits of the city, as future developments require; to be six feet in diameter and diminish to four feet in diameter at Seventeenth street. Its capacity is to be three times that of the present sewers, and will carry off rainfall over the entire area of the city amounting to one inch in twenty-four hours, which would be equal to about 3,000,000 gallons per hour.

"The conduit is to be placed at an elevation that will drain the lowest portion of sewage lake, which we now use as a reservoir. It will be of brick, laid in cement mortar, circular in form, with a smooth vitrified split pipe invert in the bottom—twenty to twenty-four inches in diameter—for dry weather flow to confine the volume to a narrow channel—thus affording the least friction and accelerating the velocity—the bottom of the brick main on each side of the split pipe invert to be filled with concrete and cemented over.

"This main conduit to be placed at an elevation below all our present sewers, so that when filled completely water would not back up in these sewers.

"We must not lose sight of the fact that flushing is required during the dry season especially, in order to keep lateral or alley sewers clean; it being understood, of course, that the cesspools and vaults are to be abolished and the house drainage to be discharged directly into these sewers. For this purpose we can draw from our present water supply to the extent of a quarter of a million gallons daily, which will be ample and can easily be supplied from the water works, handling from 4,000,000 to 6,000,000 gallons daily. It is not the amount of water that is used, but the manner in which it is used for this purpose that produces desirable results.

"It is therefore deemed the most expedient to put automatic flush tanks in operation in the near future—one at the head of each alley sewer—discharging from 250 to 300 gallons each, twice a day. Such a volume shot suddenly into a sewer of eight inches in diameter is the most effective method of cleansing and the cheapest; main sewers do not require direct flushing, as it is a fact that nearly all of them keep clean; however, their velocity of flow would be accelerated by this method.

"In this brief outline I have pointed out the practical features of this plan, which should appeal to the technical man as well as the man of common sense.

"It may be of interest to those who fear that this plan does not offer complex arrangements enough to warrant its acceptance to explain that it is designed according to scientific principles and the modern ideas of sanitary specialists.

"In the pumping arrangement there is to be the most economical method of operation—only so much pumping power to be applied as will fit the conditions—the siphon principle to be employed so that the actual lift will be the difference in height between surface of sump and surface of river.

"The material for the main sewer is such as is best for all our large cities for storm-water drainage; brick laid in cement results in a solid stone, so far as all practical uses are concerned.

Authorities claim that if the bottom be smooth the sides are unimportant as regards velocity of flow. We therefore propose having the smooth pipe invert in the conduit of small diameter to confine the volume and make a swift current, so that the advocate of the small-pipe idea for house drainage (which is about all there is in summer) can find no fault. Though it be a paradox, we may say that by this means the 'separate' system is combined in an ingenious way as regards the working of this conduit, making it much more effective and yet complex enough to gratify the most technical mind.

"The circular form is all that could be desired for purposes of strength—no foundation or footings are required other than the natural ground—its depth beneath the surface insures pressure of earth sufficient to keep up the brick in the entire circle.

"This simple form is employed in many cities—Washington, D. C., for example—where diameters are as great as twenty feet. For these sewers no special foundation is prepared.

"There can be no dispute as to the location. S street is the lowest on the average, and access to the river is most convenient; and a main artery laid along S street will accommodate our present facilities for drainage.

"I maintain that this plan is comprehensive, for the drainage area of the entire city is taken into account, and it is designed to carry off surplus waters resulting from unusual rain storms.

"The plan, too, is consistent throughout, because each part is proportioned to accord with requirements. The four-foot diameter at Seventeenth street conforms very closely to the drainage which will find its way there, and the six-foot diameter conforms also to the amount to be received at the river.

"In conclusion, I will say it is designed to accommodate future developments and to be a permanent improvement.

HARRY BAKER'S CASE.

It Has Been Set for Trial on the 7th of September.

Harry Baker, the young man implicated with Callendine in the robbery of the street car company's office last December, will not be tried until September 7th.

The trial had been set for yesterday, but Baker's counsel, Hiram W. Johnson, objected to his client being tried by jurors selected from the present venire, on the ground that they had become familiar with the facts in the Callendine case. He wanted a jury selected in the usual way—not a special one, as in the latter case the jurors would be selected chiefly from one locality. Beside, one of his witnesses, William McCullom, is in a hospital and unable to appear in court.

District Attorney Ryan expressed a willingness to have the Sheriff take his time and select the jury from outside the city, which could be done in two or three days. As for witness McCullom, his deposition could be taken.

But Mr. Johnson did not want it that way. He did not want a jury gathered in that way, but regularly drawn by the court. And he preferred to have Witness McCullom in court, that he might give his testimony before the jury personally.

Judge Hinkson thought the request for a continuance was reasonable, so he set the case for the 7th of September.

WAS ACCIDENTAL.

The Drowning of Young Curtis at Michigan Bar.

Deputy Coroner Clarence Clark visited Michigan Bar yesterday and held an inquest on the remains of M. J. Curtis, the young man drowned in the river above that village on Saturday evening.

The only witness was Jesse Bundock, a twelve-year-old boy, who was present at the time of the accident. Young Curtis, who could not swim, entered the river to bathe at a place where deep pot-holes had been worn out by the action of the water, and stepping into one of them disappeared and was drowned. A force of men grappled for the body four hours before it was brought to the surface.

The jury impaneled by the Coroner brought in a verdict of death by accidental drowning, and the remains were brought to this city and will be interred to-day from Clark's undertaking parlors.

HE WILL APPEAL.

Justice Henry Decides Against Officer Harlow's Salary Demand.

J. M. Harlow, who has been "subbing" on the police force ever since the suspension of Captain Greene, will not receive any pay for his services unless the Superior Court awards it to him.

The Trustees refused to pay him on the ground that, having been rejected for a permanent place on the force, he was ineligible to even a temporary place. He sued the city, and yesterday Justice Henry upheld the action of the Trustees. Harlow says he will appeal.

Has Another Attorney.

Barney Carroll was not tried yesterday for receiving stolen property. When his case was called in Judge Hinkson's court, S. R. Hart, who had been appointed to defend Carroll, announced that the latter had declined his services and was without counsel.

Carroll himself then asked the court to select some one else to defend him. Judge Hinkson named C. A. Elliott. The case was set for Thursday next.

Must Observe the Law.

It is against the law for anyone to deposit manure or rubbish of any kind in the streets or alleys. Sanitary Inspector Herr desires the attention of citizens called to the fact that when they place manure in the alleys it must be in boxes, and must be removed at least twice each week.

John Selbeg's Case.

John Selbeg, who on Saturday last was arrested on a charge of having kept his saloon at Eighteenth and M streets open after midnight without a proper license, was arraigned in the Police Court yesterday morning, entered a plea of not guilty and the case was continued until Wednesday morning next.

The Public Schools.

Close Friday, and conditioned scholars should then attend Howe's Academy, Ninth and I.

The biggest shoe store in the city is that of "The Hub."

William M. Petrie, 622 J street, has a large assortment of dusters, "such as" mohairs, brilliantines, linen and cashmere, extra long. Price, \$1 to \$7.

Camping stoves and cooking utensils. M. Hirsch, 1013 and 1015 J street.

Just arrived. A full line of Catholic goods. Adam Haubold keeps notions of all kinds at 1122 J street.

In the lead and going to continue. Cutbirth, photographer, Thirteenth and K.

THE WHEELWAYS ALL RIGHT.

Both in the Direction of Folsom and Stockton.

A Blue Ribbon Indoor Racing Meeting on Next Friday Evening.

Next Friday evening there will be another interesting bicycle racing meeting at the New Pavilion, and on account of the reduced price of admission every one will have an opportunity of seeing the wonderful track and the exciting races that will take place.

The charges for admission will be 10 and 25 cents on that evening, according to the location of the seats, and now that the Sacramento riders are familiar with the track there may be some record smashing by the speedy riders of the Capital City Wheelmen.

The professionals who rode over the track last week declared that it was the best they had ever tried, and before it is taken away the crack riders of this city want to try for some more records.

Because of the reduced price of admission the races should and doubtless will attract a great crowd of people.

At the meeting last night of the Capital City Wheelmen Chairman Frank Miller reported that the path from Brighton to Folsom is in excellent condition, and that by the end of this week it is hoped that the stretch from Thirty-first street to Brighton will also be, and, it is hoped, will remain so permanently.

H. Bennett, Superintendent of the Stockton path reported that that wheelway is in practically perfect condition as far as Arno. At that point Mrs. Valens has kindly volunteered to have a man work on the path when necessary.

The Committee on the Capital City Wheelmen's Drill Corps, through Chairman Taubner Goethe, reported that about thirty members are drilling every evening at Agricultural Park, and that they were very enthusiastic over the work. The corps will drill each evening this week at 7 o'clock, and all members are requested to attend. It is intended to send a battalion to Stockton to give an exhibition drill during the watermelon function.

M. N. Winans requested that the racing members of the club participate in the blue ribbon meet on the indoor track at the new Pavilion next Friday evening. He stated that his intention was, if sufficient funds were raised at the meet, to again erect the track and after the State Fair, and to allow the Capital City Wheelmen's racing team the use of the track during the winter months; also, to permit the Capital City Wheelmen's Drill Corps to drill at the Pavilion during his lease.

The club heartily accepted the offer, and decided to do everything in its power to assist the blue ribbon meet on Friday evening.

Messrs. Jackson and Newbert of the club have offered their services for an exhibition of track riding on that occasion.

The feature of the racing on Friday evening will be Oscar Osen's attempt to lower the professional indoor records for all distances from a quarter of a mile to a mile.

There will be a one-mile handicap, a half-mile handicap and a quarter-mile scratch race. And there will be others.

No Need of Vacation. No need of neglecting business or giving up home comfort when all the benefits of an outing at seashore or mountain may be obtained by drinking Bartlett Springs water. The Pacific, J. near Eighth.

Speaking of Pianos: Here's a choice. We have the Jacob Dol, Kranich & Bach, Behr Bros., Stein, Croover, Mathushek and the unrivaled Steig, all on sale at our new warehouses, 716 J street. Neale, Eilers Co. (Cooper Music Co.).

One Dollar Will buy one bottle Sutter Bourbon, the finest family whisky, or four bottles Idaho mineral water at B. K. Bloch & Co., Fifth and J.

Dairyman Milk Cans. Seams necks extra heavy and very strong. See this can and get our price before purchasing. American Cash Store, Eighth and K.

Electric Belts.—The latest improved electric belts; a silver combination in place of zinc, that will last a lifetime, are on sale at cut rates. Drug department C. C. C., Granger's building.

Try our latest—Fruit nectar. The great Eastern success. Only 5 cents a glass. Welch Bros., at Ninth and J.

Mineral Water.—Litton seltzer, the only genuine seltzer spring in the United States, par excellence for liver and kidney troubles and biliousness, can be had of all dealers. C. C. C. wholesale agents.

Pasture germ-proof filter. Egan Bros., 821 K street.

We are still cutting the price of sarsaparillas, pills and other patent medicines. J. A. Green, Seventh and K.

Dr. Weldon, 806 J street, extracts teeth without pain; local anaesthetic.

Best rooms and offices in city. The Terclu, Eighth and K. Lowest rates; janitor and light free.

Electric light fixtures and electrical supplies. Tom Scott, the plumber, 303 J.

High-class photos, Young, 421 J.

BORN. McARTHUR.—In Acampo, Cal., July 25th, to the wife of George McArthur (formerly Noble Langford), a daughter.

DIED. SWENEY.—In this city, July 27th, Theresa, wife of George Sweeney, a native of Ireland, aged 55 years. Funeral notice hereafter.

SCHMIDT.—On the Upper Stockton Road, opposite Swiss Station, July 26th, Carl G., eldest son of Mrs. Pauline Schmidt (and brother of Edward and Willie Schmidt), a native of Stockton, Cal., aged 24 years and 9 months. Friends and acquaintances are respectfully invited to attend the funeral from the residence of his mother, Swiss Station, this afternoon at 2:30 o'clock. Interment City Cemetery.

SHUCKS.—Near this city, July 25th, Ada Shucks, wife of M. W. Shucks, aged 9 years. Friends and acquaintances are respectfully invited to attend the funeral this (Tuesday) afternoon at 2:30 o'clock, from the residence of her parents, 68 & Q street.

When Baby was sick, we gave her Castoria.

When she was a Child, she cried for Castoria.

When she became Miss, she clung to Castoria.

When she had Children, she gave them Castoria.

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Wednesday, 9:30 A. M.

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LOT 1—Window Shades of durable opaque cloth, mounted on patent spring rollers and neatly fringed. Size 37x84 inches. Sale Price, 37c.

LOT 2—Denim Table Covers, with figured fancy center pieces. About 50 inches square. Sale Price, 39c.

LOT 3—Chenille Rugs, with fur edges, to place in doorways and fronts of bureaus, etc. Sale Price, 50c.

LOT 4—New Summer Window Curtains in grenadine and snowflake effects, beautifully intermixed with fancy colors. Will wash well. Length about 3 yards. Sale Price, \$1 29.

In addition we have a lot of White Lace Curtains at 65c, \$1 69 and \$2 18 pair. Heavy Derby or Tapestry Curtains, for halls, doorways or sofa covers, at \$2 87 pair.

Ladies' Bicycles Reduced.

We have eight Ladies' Bicycles of various good makes, which have been selling at \$33 to \$62, and which we have reduced in order to dispose of at once to \$24 75, \$31 50 and \$46 50.

Ice Cream.

Ice Cream Freezers don't cost as much as they used to. The Shepard Lightning, than which we know of none better, 2 quarts, \$1 55; 3 quarts, \$2; 4 quarts, \$2 35.

Perfect Tooth Powder, 25c.

Very large 4-ounce bottles of Tooth Powder, several times as much in quantity as many other 25c powders, and guaranteed just as good. It's a saving to buy in this way.

Lawn Mowers.

A first-class Mower, durable and easy to run. Price, \$3 40. Rakes, Hoes, Garden Hose, Sprinklers, etc.

Japanese Telescope Baskets.

Two parts, one of which incloses in the other. Prices, 20c to \$1, according to size. Straps, 30c. Are cheaper and lighter than regular valises.

Croquet.

Hardwood Sets, varnished and striped, \$1 25 and \$1 75. Some extra fine sets, long heads to mallets, \$4.

Weinstock, Lubin & Co., 400-412 K St.

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Many are the men in Sacramento who would be glad to get these shoes in place of the kinds they are now wearing if they only knew of them. Hundreds of men have already found them out to their very great satisfaction. The shoes are trim and slightly, strong enough to wear well, fine enough for dress wear. Latest styles, substantial materials, fine finish, with fitting qualities unexcelled.

Made of fine, soft calfskin, with oak sole bottoms and perfectly smooth sides. All sizes at \$3 50 a pair and in many different styles, as follows:

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