

ELEVATED-STORAGE TANK IS FAVORED BY VILLAGE MANAGER

(Continued from page 1.)

lines, which fit the most modern type of pumping equipment for this source of water supply. One of these wells is and the other 300 gallons per minute and both are pumped directly into the village mains. Under present conditions the demand, which varies from a minimum of 100 G.P.M. to a maximum of 600 G.P.M., the larger pump will deliver more water than the village will consume at any time, while the smaller will more than supply the night requirements.

The nature of these conditions is such that they operate most efficiently and economically at the capacity, and against the pressure which they are designed. This condition does not prevail under present method of pumping and the efficiency of the pumping units varies from 20 to 50 per cent, the maximum efficiency being 70 per cent, with corresponding increase in the cost of pumping. This condition also produces a great variation in pressure, which decreases as the demand decreases. This fluctuation in pressure is very racking on the distributing system, especially so near the pumping station, and is the cause of many leaks in mains and service pipes.

Under present conditions, a failure of the electric power for accident to the motors or pumps, which could be caused by many things, would leave the village without water until the steam pump could be started and water pumped from the ground storage tank. The most serious condition that we have to consider is the possibility of a break in the line on West Maple avenue. A break in this line anywhere between the pumping station and Woodford avenue would leave the village entirely without water until repairs could be made, as there is no other means of supplying a sufficient amount of water to the larger part of the village.

The village committee has carefully considered the situation from all angles and has determined that the best means of correcting the conditions previously mentioned consist of the construction of an elevated storage reservoir capable of supplying the water at the proper pressure in case the pumps are idle. There are many reasons in favor of the installation of an elevated tank in connection with a water supply system in any medium sized city and no reason against such an installation. The principal advantages to be derived are as follows:

1.—It will supply the entire village with water in case of breakdown of power pumps, motors or main feeder pipes. There is no apparatus to get out of order and gravity will produce the necessary pressure.

2.—An additional supply of water is available by gravity in case of a severe fire.

3.—Will maintain a uniform pressure in the system and so increase the life of the mains and save cost of repairs by eliminating fluctuation of pressure with water hammer.

4.—By providing a distributing point under pressure at the corner of the village it will increase distribution and avoid to a considerable extent the necessity of installing larger mains.

5.—It will assist materially in securing lower fire insurance rates for the village.

6.—It will decrease the cost of pumping because the pumps can operate at maximum efficiency at all times and will be idle part of the time. This saving will be returned to consumers by a lower water rate.

7.—A good elevated storage tank has a value that cannot be measured in dollars and cents on account of the greatly increased security it gives to the residents of the community.

There are no logical reasons against the installation of an elevated tank. It has been said in the past by opponents of such a tank that they were obsolete and not being used in modern systems. This is an absurd statement, as cities and villages all over the country are using and still installing elevated tanks of capacities from 50,000 gallons to 1,000,000 gallons. The engineers of the Detroit Water Board, in planning a water supply for surrounding municipalities, have specified elevated storage tanks as part of the system. It has also been said that the water from such a tank would be warm but such a condition would be mostly imaginary, as the water is constantly changing and the difference in temperature would not be more than a few degrees at the most, certainly no more than caused by the use of the present ground storage tank.

It is therefore proposed to install an elevated storage tank of sufficient capacity to provide for a twenty-four hour domestic supply to the present population, estimated on this basis to require a storage capacity of 300,000 gallons.

This tank is to be located on village property along the Grand Trunk tracks at the end of Ridgdale avenue, which is within four or five feet of being as high as any point in the village. Such a tank in this location, elevated 100 feet above the ground, would be capable of delivering 1,000 gallons of water per minute to the business section in case of fire, without the use of pumps.

The operation of a tank of this description is very simple. One large pipe acts as both inlet and outlet and is connected to the village mains at as many points as possible. In this case to a 6 inch main on Oakland, a 6 inch main on East Maple, a 4 inch main on Ridgdale and 4 inch main on Haylinton. Thereafter when the pumps are running at full capacity, the excess of supply over demand will go into the tank and should there be a demand for more water than the pumps will supply, as in case of fire, the tank will supply the deficiency. When the tank is full a pressure governor at the pumping station will automatically stop the pumps until the level of the water in the tank reaches a certain pre-determined point when the same governor will automatically start them again.

It is hoped that the foregoing article has demonstrated the most vital necessity of providing such insurance against interruption of our water supply and that the installation of such an elevated tank, which is estimated to cost \$200,000, complete with connections to the existing mains and automatic control for the pumps, will receive the full approval of the village residents at the election on March 9th.

# DOLLAR DAY

## Thursday, March 5

# Palmer-Begole & Company

ARE OFFERING ASTOUNDING VALUES THAT WILL MEAN GREAT SAVINGS TO THRIFTY SHOPPERS. OUR GUARANTEE ON ALL DOLLAR DAY MERCHANDISE SAME AS OUR EVERY DAY POLICY—GIVES THE BUYING PUBLIC CONFIDENCE THAT IS LACKING IN SO MANY BIG SALES. THIS PAGE PERMITS US TO TELL YOU OF ONLY A PART OF OUR MANY SPECIALS WE ARE OFFERING.

- House Dresses**  
Made of good quality Linene and Gingham. \$1.50 value.  
**\$1.00 Each**
- Muslin Gowns**  
Trimmed with fine laces and embroideries. Also a few crepe styles.  
Values to \$2.  
**\$1.00 Each**
- Princess Slips**  
Made of fine quality muslin.  
Values to \$2.00.  
**\$1.00 Each**
- Girls' Hose**  
Slightly imperfects of 35c quality. Black only.  
**6 Pair for \$1.00**
- Wool Middies**  
\$5.95 and \$6.95 values.  
DOLLAR DAY for  
**\$3.00**
- Kimonas and Bath Robes**  
Choice of stock at  
at **\$1.00 off**

- Bath Towels**  
Plain white. 50c value.  
**3 for \$1.00**
- 36 Inch Curtain Material**  
25c values.  
**5 Yards for \$1.00**
- Wash Cloths**  
Large size. 15c value.  
**\$1.00 Dozen**
- Ladies' Hose**  
Slightly imperfects of 59c list value.  
**3 Pair for \$1.00**
- Baby Blankets**  
30 x 40. Scalloped edge.  
**\$1.00**
- Box Writing Paper**  
79c value.  
**2 Boxes for \$1.00**
- Ladies' Cotton Blouses**  
Sizes 36 to 46. \$2.50 values.  
**\$1.00 each**
- Rompers and Dresses**  
One lot of Rompers, Creepers and Dresses, some slightly soiled. Values to \$1.25.  
**2 for \$1.00**

**15 COATS for Ladies' and Children**  
Winter and spring styles to close out. Values to \$20.00.  
**\$3.00 each**

## Ladies' Silk Hose

Save \$1.00 by buying Two Pair of our regular \$2.00 full fashioned Pure Silk Hose on sale DOLLAR DAY  
**\$1.59 a Pair. Two pair for \$3.00**  
— All the new Spring shades are here —

## Ladies' Dresses

Save a Dollar on Spring Wash Dresses—Linen and Broadcloths. \$4.95 values.  
DOLLAR DAY at  
**\$3.95**

## YARD GOODS

- ALL LINEN UNBLEACHED TOWELING—  
5 yards for **\$1.00**
- TWILED WHITE OUTING FLANNEL, 27 in. wide. 6 yards for **\$1.00**
- FINE NAINSOOK. 36 inches wide. 4 yards for **\$1.00**
- 32 in. CHECKED GINGHAMS. 25c quality. All colors. 6 yards for **\$1.00**
- 30-in. RIMONA CREPE—  
3 yards for **\$1.00**
- MANCHESTER AND RUMSON PERCALES. 36 in. 29c value. 5 yards for **\$1.00**
- 36-in. LINGERIE CHECKS. All colors. 4 yards for **\$1.00**

**Ladies' Umbrellas**  
Black only. \$1.75 to \$2.25 values.  
**\$1.00 each**

**81 x 90 Sheets**  
Seamless sheets. First quality.  
**\$1.00**

**Silk Parasols**  
\$5.00, to \$7.95 values. All colors. Dollar Day only  
**\$3.95**

**Cotton Batts**  
2 1/2-lb. quilted batt. Pure white.  
**\$1.00 each**

## MEN'S SILK HOSE

Men's Pure Silk Hose, a regular 75c quality. All colors. Buy them by the box for summer.  
**2 Pairs for \$1.00**

**Men's Socks**  
Famous 7-point sock. Regular 25c value.  
**5 Pair for \$1.00**

**Men's Work Sox**  
20c value.  
**7 Pair for \$1.00**

**Men's Cashmere Hose**  
Values from 75c to \$1.25.  
**2 Pair for \$1.00**

**Men's Night Shirts**  
Made of good quality muslin—all sizes.  
**\$1.00**

**Men's Caps**  
One lot of Men's Spring Caps, values to \$2.00.  
**\$1.00**

**Men's Shirts**  
One lot of Men's Dress Shirts—some slightly soiled. Values to \$2.50.  
DOLLAR DAY  
**\$1.00**

**Jersey Gloves**  
Good heavy quality.  
**6 Pair for \$1.00**

**Men's Flannel Shirts**  
Save \$1.00 from the regular price of wool shirts. All \$3.50 values.  
DOLLAR DAY  
**\$2.50**

**Men's Khaki Coveralls**  
Large, roomy Coveralls. A regular \$3.50 grade. Save a dollar and buy at  
**\$2.50 pair**

**Boys' Golf Hose**  
Sizes 8 1/2 to 11. New Spring Golf Hose. 75c value.  
DOLLAR DAY  
**2 Pair for \$1.00**

**Boys' Underwear**  
One lot sizes 14 and 16 years. \$1.00 value.  
**3 Suits for \$1.00**

**Boys' Wool Hose**  
Sizes 6, 6 1/2 and 7. Values to \$1.25.  
**2 Pairs for \$1.00**

**Boys' Oliver Twist Suits**  
Made of wool tweeds and corduroy. Sizes 4, 5, 6 and 8. \$4.95 and \$5.95 values.  
**\$2.00 each**



# Palmer-Begole & Company

108-110 North Woodward

