

# Equipment and Engineering

Original Descriptions of Municipal and Telephone Machinery and Appliances. Engineers' Notes.

— All New and Interesting —

## Progress in Parks

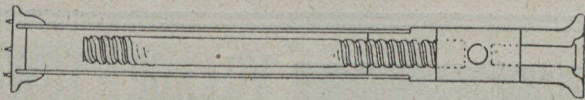
The Port Arthur Park Commission, has retained Mr. Frederick G. Todd, Landscape Architect of Montreal, to prepare plans for their various parks, including Current River Park, which suffered so much from the flood of last spring. Current River Park is a large natural park of about one hundred and fifty acres, through which flows the beautiful Current River. Last spring a large storage dam gave way above the park and the volume of water was so great that the river formed another channel west of the old one, washing the soil away to bed rock for a width of three or four hundred feet, the whole length of the park. Mr. Todd has just returned from a visit to the park, and although his plans have not been completed, he thinks it will be very difficult to restore the park to its former beauty, as the washout was through the most beautiful natural part of the park.

On his trip West, Mr. Todd visited Parks at Winnipeg, and Regina, which he has planned, and found great progress being made in both places.

In addition to his municipal work, Mr. Todd has been retained by a private Company in Winnipeg to entirely revise the plans for Tuxedo Park, an important residential suburb covering about two square miles. It is the intention to make this an ideal residential community with ample parks and playgrounds.

## Trench Brace

Everyone who has had anything to do with excavating trenches for public works knows the time and material wasted in cutting lumber to hold the sidewalks. To obviate this, Mr. R. G. Olmsted, of Hamilton, has designed a mechanical brace that is not only far more reliable, but also can be easily put in and taken out, and will last indefinitely. The brace is made in different



sizes from 16 inches upwards; for the City of Brantford, Ont., they were made up to 5 feet in length. The cut shows what the brace is, and further particulars and prices can be had from the maker.

## Humane Tongueless Road Grader

Kind hearted people are often hurt at seeing the struggles of horses in the grading of roads. The Humane Tongueless Road Grader and Leveller made by the Climax Road Machine Co. of Hamilton, Ont., is so constructed as to be easy on the horses while doing good and effective work. The design is quite novel, the weight is not over 500 lbs., and it has many advantages which recommend its use. As the question of price is often the first thing that appeals to a customer, it is interesting to know that the cost is about one-fifth of the graders now in general use. The low cost enables every farmer to have his own, and thus avoid road tax; it also allows of any Council purchasing three or four, and

still spending less money. The next important point, the cost of operating, is also satisfactory, as it takes less power to operate. As the work done is satisfactory, and of very varied character, owing to the facility with which different operations can be done, the Grader is naturally becoming a great favorite with all who have tried it. Full particulars can be obtained from the Company.

## Saraguay Electric and Water Co.

The Saraguay Electric and Water Co., of Montreal, of which Mr. Charles Brandeis, C. E., is Consulting Engineer, reports the following developments:

The waterworks plant for Cartierville, Que., has been completed, and a contract received for a sewerage system. A contract has been secured from the Town of Bordeaux for a waterworks plant. A 10 year franchise for electric light has been secured from the Village of Pointe aux Trembles, Que., and a temporary steam plant is being installed until next spring, when the Company's transmission lines will be extended some 17 miles to supply light from the central plant. The lines for supplying electric light in Notre Dame de Grâce, Que., are now completed. Up to the present, the Company has over 40 miles of electric light lines in operation.

The Company is asking for the supply of about 17 miles of transmission line.

Owing to the increased demand for the X cells, the Electrical Specialties Co., Toronto, has decided to add a larger type, to be known as the No. 8 size, the dimensions of which will be 3½ in. x 8 in., and the weight 5½ lb.; this type will be specially adapted for very heavy ignition work, as on stationary gas and gasoline engines and for pool changes for telephones.

A change will be made in the No. 6 cells, as two kinds will be supplied to meet the varying demands; the No. 6 X cell Telephone special has an orange label, and will fill the demand for a battery giving lasting satisfaction for telephone service; while No. 6 X cell Igniter, with a navy blue label, will be specially constructed for the ignition. The Company has been awarded large contracts for the new year, and, notwithstanding the usual quietness in this line in November and December, reports that the factory has been kept at full work, with the full number of employees.

The value of good roads is being more generally appreciated by all sensible people, and their construction by good machinery is always found to be more economical and satisfactory than in the old fashioned way. Messrs. Betchels, Limited, Waterloo, Ont., make a specialty of road machinery, and call particular attention to their No. 1, Wheel Scraper. It is built entirely of iron and steel, the wheels being very strong. The arrangement for dumping is entirely novel, as it is entirely automatic, while the fact that it is loaded from the front instead of the rear, allows the operator to see what is being done. The whole mechanism is so well arranged that more work can be done with it than the kinds which have been generally used.