

THE
"Massey" Offices and Works.

Largest Manufactory of Harvesting Machinery in Canada.

MOST COMPLETELY EQUIPPED.

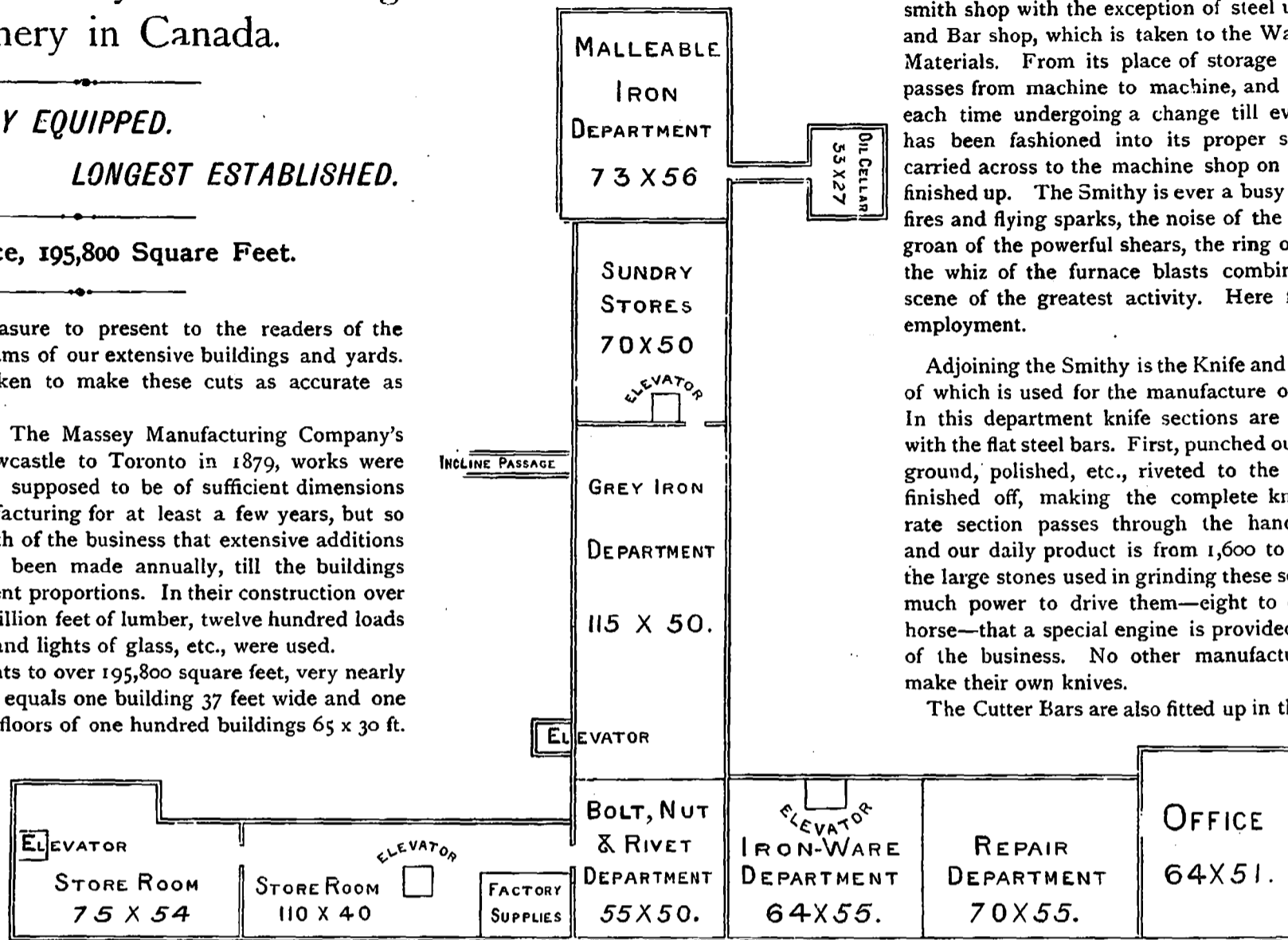
LONGEST ESTABLISHED.

Floor Space, 195,800 Square Feet.

It gives us great pleasure to present to the readers of the ILLUSTRATED, diagrams of our extensive buildings and yards. Great care has been taken to make these cuts as accurate as possible.

Upon the removal of The Massey Manufacturing Company's establishment from Newcastle to Toronto in 1879, works were erected which were then supposed to be of sufficient dimensions to accomplish its manufacturing for at least a few years, but so great has been the growth of the business that extensive additions and improvements have been made annually, till the buildings have assumed their present proportions. In their construction over two million brick, one million feet of lumber, twelve hundred loads of stone, eighteen thousand lights of glass, etc., were used.

The floor space amounts to over 195,800 square feet, very nearly four and a half acres, or equals one building 37 feet wide and one mile long, or the united floors of one hundred buildings 65 x 30 ft.



BASEMENT PLAN SCALE 60 FT = 1 INCH

Upon leaving the moulding floor the castings go to the Rattle Room, thence to the Scratch Room where they are cleaned and ground, and next down the incline passage way into the basement of the main building for storage in the Grey Iron Department. For this work 13 to 18 men are required under the supervision of a foreman.

Bar iron and steel upon arrival is stored in the Blacksmith shop with the exception of steel used in the Knife and Bar shop, which is taken to the Warehouse for Raw Materials. From its place of storage the wrought-iron passes from machine to machine, and from fire to fire each time undergoing a change till every several piece has been fashioned into its proper shape when it is carried across to the machine shop on hand cars to be finished up. The Smithy is ever a busy place—the many fires and flying sparks, the noise of the trip hammer, the groan of the powerful shears, the ring of the anvils, and the whiz of the furnace blasts combine to make up a scene of the greatest activity. Here forty smiths find employment.

Adjoining the Smithy is the Knife and Bar Shop, a part of which is used for the manufacture of rake teeth also. In this department knife sections are made, beginning with the flat steel bars. First, punched out, then tempered, ground, polished, etc., riveted to the knife-backs, and finished off, making the complete knife. Each separate section passes through the hands of nine men, and our daily product is from 1,600 to 1,700. Some of the large stones used in grinding these sections require so much power to drive them—eight to eight and a half horse—that a special engine is provided for this branch of the business. No other manufacturers in Canada make their own knives.

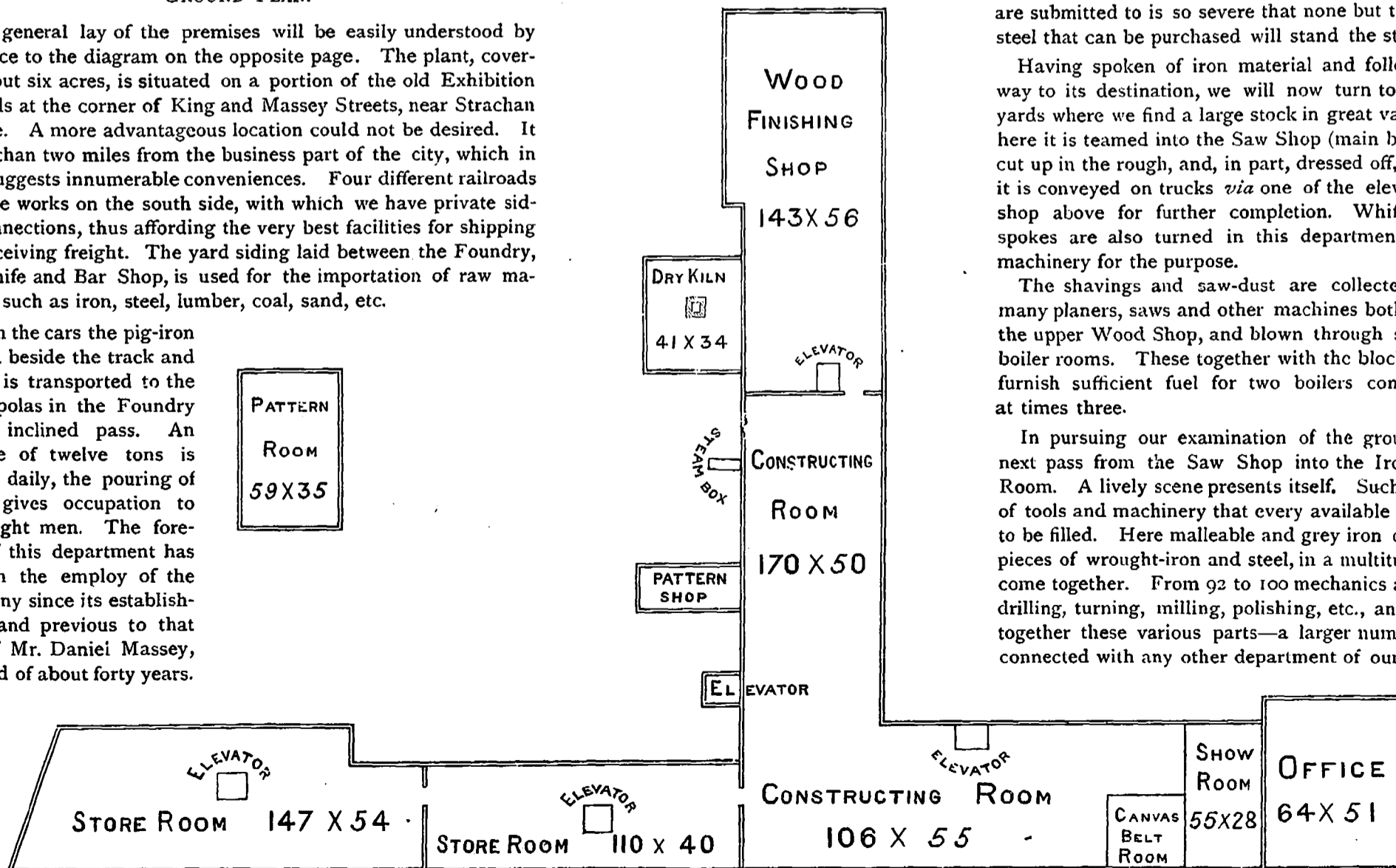
The Cutter Bars are also fitted up in this shop ready for

The main building presents a front of 492 feet on Massey Street and has a T branch of 258 feet running west, making a total length of 750 feet, four stories high. The Blacksmith Shop and Foundry, also branching to the west, has a length of 310 feet. Parallel to this is the Knife and Bar Shop, which is two stories high.

GROUND PLAN.

The general lay of the premises will be easily understood by reference to the diagram on the opposite page. The plant, covering about six acres, is situated on a portion of the old Exhibition Grounds at the corner of King and Massey Streets, near Strachan Avenue. A more advantageous location could not be desired. It is less than two miles from the business part of the city, which in itself suggests innumerable conveniences. Four different railroads pass the works on the south side, with which we have private siding connections, thus affording the very best facilities for shipping and receiving freight. The yard siding laid between the Foundry, and Knife and Bar Shop, is used for the importation of raw materials, such as iron, steel, lumber, coal, sand, etc.

From the cars the pig-iron is piled beside the track and thence is transported to the two cupolas in the Foundry by an inclined pass. An average of twelve tons is melted daily, the pouring of which gives occupation to forty-eight men. The foreman of this department has been in the employ of the Company since its establishment, and previous to that time of Mr. Daniel Massey, a period of about forty years.



FIRST FLOOR PLAN SCALE 60 FT = 1 INCH

attachment to the different machines, the making of the entire cutting apparatus engaging 26 workmen.

The Rake Tooth Room extends to the full height of the building for the purpose of ventilation. In this room are to be found the latest and best appliances for the making of these goods. Eight men, with this excellent outfit, turn out an average of 50 sets per day. The test these teeth are submitted to is so severe that none but the very best steel that can be purchased will stand the strain.

Having spoken of iron material and followed it part way to its destination, we will now turn to the lumber yards where we find a large stock in great variety. From here it is teamed into the Saw Shop (main building) and cut up in the rough, and, in part, dressed off, after which it is conveyed on trucks via one of the elevators to the shop above for further completion. Whiffletrees and spokes are also turned in this department by special machinery for the purpose.

The shavings and saw-dust are collected from the many planers, saws and other machines both in this and the upper Wood Shop, and blown through shoots to the boiler rooms. These together with the blocks and chips furnish sufficient fuel for two boilers constantly, and at times three.

In pursuing our examination of the ground plan we next pass from the Saw Shop into the Iron Finishing Room. A lively scene presents itself. Such is the array of tools and machinery that every available space seems to be filled. Here malleable and grey iron castings, and pieces of wrought-iron and steel, in a multitude of forms, come together. From 92 to 100 mechanics are busied in drilling, turning, milling, polishing, etc., and in putting together these various parts—a larger number than are connected with any other department of our business.