

ORDERS OF THE RAILWAY COMMISSIONERS OF CANADA.

Copies of these orders may be secured from the Canadian Engineer for a small fee.

C.P.R. directed to Build Spur Line in Lethbridge.

Windsor, Erie and Lake Shore allowed to Cross Michigan Central.

4342—Feb. 12—Authorizing Grand Trunk Railway to construct spur to premises of J. Duff & Son, Hamilton, Ontario.

4343—Feb. 12—Authorizing East Middlesex Telephone Co-operative Association, Limited, to carry its telephone wires over Grand Trunk Railway tracks at Kelly's Siding, Ontario.

4344—Feb. 12—Authorizing East Middlesex Telephone Co-operative Association, Limited, to carry its telephone wires over the Grand Trunk Railway tracks at Wyton, Ontario.

4345—Feb. 7—Extending the time till May 1st, 1908, within which the Grand Trunk Railway shall install gates and interlocking semaphores on its tracks where the same cross the Montreal Street Railway at the junction of St. Ferdinand and Notre Dame Streets in St. Henri, Montreal.

4346—Feb. 13—Authorizing the Canadian Pacific Railway to construct spur to the premises of the Inter-Ocean Pressed Brick Company, Pilot Butte, Sask.

4347—Feb. 14—Authorizing C.P.R. to construct ferry apron for use in connection with ferry slip at Vancouver.

4348—Feb. 14—Authorizing C.P.R. to construct ferry apron for use in connection with ferry slip at Prescott, Ont.

4349—Feb. 14—Authorizing the Byron Telephone Company to carry its wires across the tracks of the G.T.R.

1. At the first two subways under the G.T.R. tracks west of Komoka, Ont., on the 18th District.

2. At the first public crossing west of Komoka on the 17th District.

4350—Jan. 21—Approving branch line or spur of C.P.R. through Sections 14, 15, 16, 17 and 18, Township 53, North, Range 24, west of 4th meridian, Province of Alberta, commencing at a point on the centre line of the Grand Trunk Pacific main line, and being in the north-east quarter of Section 14, Township 53, North, Range 24, west of 4th meridian, known as the branch line north of Edmonton, Alberta.

4351—Feb. 12—Authorizing C.P.R. to construct spur in city of Winnipeg, Man., to premises of Oliver & Manson.

4352—Feb. 17—Authorizing the Municipal Council of the county of Victoria to lay sewer pipes under the tracks of the G.T.R. at Albert Street, Lindsay, Ont.

4353—Feb. 3—Directing the C.P.R. to construct, maintain and operate a branch of railway to the warehouse of the North-West Jobbing and Commission Company, Lethbridge, Alta.

4354—Feb. 17—Authorizing Bell Telephone Company to erect aerial wires across the Pere Marquette Railway at crossing $2\frac{3}{4}$ miles north of St. Thomas Station, Ont.

4355—Jan. 15—Directing the Windsor, Essex and Lake Shore Rapid Railway to provide and place upon its poles on Talbot Street, Essex, Ont., standard copper conductors for the purpose of enabling C. E. Naylor, of Essex, to transmit electric energy across the tracks of the railway at eight different points in the town of Essex.

4356—Feb. 18—Authorizing the C.P.R. to construct its railway across certain highways in the township of Albion, county of Peel, Ont.

4357—Feb. 18—Authorizing the Edmonton, Yukon and Pacific Railway Company to open for the carriage of traffic that portion of its line from Edmonton to Strathcona, Alta.

4358—Feb. 18—Authorizing the town of Aylmer, Ont., to lay a water main under the tracks of the Grand Trunk Railway at a point east of John Street, Aylmer, Ont.

4359—Feb. 19—Approving specifications and plan of trestles proposed to be used by the British Yukon Railway Company in the construction of its White Horse extension.

4360—Feb. 19—Authorizing Dr. E. T. Williams to erect a telephone wire across the tracks of the G.T.R. at public highway one mile north of Sunderland, Ont.

4361—Feb. 19—Authorizing Bell Telephone Company to erect its wires over the Grand Trunk Railway at siding at foot of Peter Street, Toronto.

4362—Feb. 19—Certifying corrections made in the location of Montreal, Quebec and Southern Railway Company, in the parishes of Gentilly and St. Pierre les Becquets, county of Nicolet, Quebec.

4363—Feb. 18—Approving Standard Passenger Tariff of C.N.R., providing for a standard passenger fare of three cents per mile between its stations in Canada east of and including Edmonton, Alberta, and rescinding Order of February 5th, 1908.

4364—Feb. 19—Authorizing the Burnt River Telephone Company to erect its telephone wires across the tracks of the G.T.R. at a point in the township of Somerville.

4365—Feb. 20—Approving location of Walkerton and Lucknow Railway between mile 36.44 and 37.5, near the town of Walkerton, Ont.

4366—Feb. 20—Authorizing Bell Telephone Company to erect its aerial wires across the G.T.R. at Grasshill, Ont.

4367—Feb. 20—Authorizing Mond Nickel Company to erect its transmission line across the Soo branch of the C.P.R., near Victoria Mines, Ont.

4368—Feb. 19—Authorizing the Windsor, Erie and Lake Shore Rapid Railway to cross with its track the track of the Michigan Central Railway at Erie Avenue, Leamington, Ont.

4369—Feb. 14—Authorizing the C.P.R. to construct a spur to the premises of E. A. Holstein, Winnipeg, Man.

A NEW CENTRAL POWER PLANT.

The Clark Thread Company, of Newark, N.J., which recently decided upon the complete "electrification" of its several large mills, located on either side of the Passaic River, has adopted plans drawn by Mr. Abercrombie, the Company's chief engineer, for a large central power house, equipped with steam turbines, to replace the various isolated plants now operated in connection with the mills.

When fully completed, the new station will consist of five modern units, having an aggregate capacity of 10,000 kw., the first of which is to be installed as soon as proper facilities for it can be provided. This is an Allis-Chalmers steam turbine and generator, rated 2,500 K.V.A. on normal load, delivering three-phase, 60 cycle current at a pressure of 600 volts. The condenser to be installed with this turbine is of the well-known Tomlinson type, built by Allis-Chalmers Company, who are also furnishing exciter units and other auxiliary apparatus, thereby placing the complete responsibility for the power equipment upon one contractor.

At the outset fully 2,500 horse-power in induction motors will be supplied from this station, about one-third of the power being distributed to the four plants on the east side of the river, known as the cotton, spooling, finishing and packing mills, and the remainder, through cables under the river, to the two cotton mills and the thread mills situated on the opposite bank. The intention is, of course, not to effect a complete revolution at once in the existing methods of power transmission and application, but to gradually change over to motor drive as circumstances permit. The entire plan is one which was under consideration for some time, and it has only been adopted after a careful study of operating conditions, both in this country and abroad.

In this Messrs. Clark and Abercrombie were able to draw upon the experience of J. & P. Coates, Limited, of Paisley, Scotland, the largest thread manufacturers in the world, with whom the Clark Thread Company is affiliated. This British company has a number of plants electrically operated, which are universally regarded as models of their kind, and it is stated that motor drive from current generated in steam turbine plants of the type above described will soon be introduced in all of the Coates properties on this side of the Atlantic.