A REINFORCED CONCRETE PAVEMENT.

During the summer of 1910 a reinforced concrete pavement was laid in Plymouth, Wisconsin. The base was laid 5 in. thick and the surface coat 11/2 in. thick, according to standard concrete specifications. Three unusual features of construction were used in the building of this pavement. "Pecky" cypress was used for expansion joints in place of the usual asphaltum, or tar. The 1-in. by 8-in. boards were used along each gutter and every 4 feet across the street, and at the end of the ties of the street car tracks. These boards were used as forms for the outside of the cement gutters and as a template for the crown of the street. A considerable saving of lumber as well as time in placing and removing the same was thus effected.

The reinforcement used was Triangle Mesh, Style 7 woven wire. This was placed directly on the concrete base so as to lie between the surface and the base.

The surface-finished coat consisted of granite chips from 1/4 in. to 3/4 in. in diameter, granite screenings from 1/4 in. down to dust and Portland cement in proportion to give the densest mixture. After this mortar was spread over the concrete base and the mesh, it was troweled smooth, and while still soft the larger granite chips were cast by hand over the surface of the pavement, giving the entire area a roughened appearance. Some of the stones disappeared entirely into the soft cement mortar, leaving depressions in the pavement, while the others sank in only part The result was a surface which, while level enough to cause no annoyance in riding over it, was still rough enough to overcome any slipperiness of surface.

This pavement, in monolithic squares of 40 feet, is now nearly two years old, has passed through two winters, and there is not the sign of a crack or a flaw in it. It is not The expansion slippery and does not wear perceptibly. joints have worn off some, but not enough to show any abrasion of the concrete along the edges of the boards. The contract price for this pavement, including grading, was \$1.23 1/2 cent per square yard. The pavement was designed and constructed under the supervision of Mr. W. G. Kirchoffer, of Madison, Wisconsin.

MINING CLUB IN VANCOUVER, B.C.

The Vancouver Mining Club was recently organized by a large number of the city's well known mining men.

Mayor Findlay outlined the objects of the association, and stated that it could and would, no doubt, take a very prominent place in the mining affairs of the province. The The public had lost faith in mining schemes for they had been victimized by the wild-catter and it was the duty of the club to put before the public the real facts of the different mining activities that from time to time excite the pubilc.

Mr. R. Hedley spoke of the work of other mining clubs. The Spokane Mining Club, he said, had aided the mining interests of that part of the country to a considerable extent. The club in Slocan had also done good work in making some mining promoters retract their prospects for get-The association, in his opinion, would ting rich quick. make Vancouver the headquarters of all mining activities for the province and would also be a place where reliable information could be obtained relative to the mineral resources of the province.

ORDERS OF THE RAILWAY COMMISSIONERS OF CANADA.

Each week on this page may be found summaries of orders passed by the Board of Kailway Commissioners, to date. This will facilitate ready reference and easy filing. Copies of these orders may be secured from The Canadian Engineer for small fee.

16347—April 17—Directing G.T.R. to construct within 30 days from date of this Order spur from main line into property of Clifton Sand, Gravel & Construction Co., in 'Iwp. of Stamford, County of Welland, Ontario. 16348-49—April 20—Authorizing C.P.R. to reconstruct 8 bridges on its Crow's Nest, Lethbridge, Havelock, Red Deer, Mountain and Farnham Subdivisions; and construct bridge at mileage 38.7, Kootenay Central Subdivisions.

Subdivisions, and construct bridge at mileage 38.7, Kootenay Central Subdivision.

16350—April 20—Approving location of Kettle Valley Ry. Co. between mileage 53.92 and 65 west of Midway, B.C.
16351—April 20—Approving location of James Bay & Eastern (C.N.R.) station grounds at St. Fenicien, Que.
16352—April 20—Authorizing G.T.R. to reconstruct 5 bridges on its 12th District Northern Division.
16353—April 20—Approving location of G.T.P. B.L. Co. stations on its 16354—April 20—Approving location of C.N.O. Ry. through unsurveyed territory, Dist. of Thunder Bay, mileage 363 to 383 from Sudbury Jct.
16355—April 19—Authorizing C.P.R. to construct its Bassano to Irricano Branch across 13 highways and diversions in Alberta.
16356—April 22—Authorizing G.T.P. B.L. Co. to cross and divert high-16356—April 22—Authorizing G.T.P. B.L. Co. to extend its telephone 16357—April 23—Directing Beal Telephone Co. to extend its telephone 16357—April 23—Directing Beal Telephone Co. to extend its telephone 16357—April 23—Directing Beal Telephone Co. to extend its 16358—April 23—Directing Beal Telephone Co. to extend its telephone Co. To extend Its 16358—April 23—Directing Beal Telephone Co. to extend W. E. Duncan, Wm. E. Riley, and J. B. Riley, work to be completed within 30 days.

days.

16358—April 23—Dismissing application of city of Valleyfield, Que., re
16359—April 23—Directing city of Montreal to commence work of con16359—April 23—Directing city of Montreal to commence work of constructing subway authorized by Order 10455 of April 28th, 1910, not later
structing subway authorized by Order 10455 of April 28th, 1910, not later
than 15th May, 1912, same to be completed within 6 months from 15th
May, 1912.

May, 1912.

16360—April 22—Approving revised plan of C.N.R. Standard Pile and Frame Trestle, for Eastern Lines.

16361—April 22—Approving location of Algoma Eastern Rly. Station at

Nairn Centre, Ontario.

16362—April 23—Authorizing G.T.P. Ry. Co. to construct spur for Fitshugh Lime and Stone Co., Ltd., near Edmonton, Alta.

16363—April 13—Authorizing G.T.P. B.L. Co. to erect stations at 18 points on its Regina-Boundary Branch, Saskatchewan.

16364—April 23—Authorizing C.P.R. to construct its Kipp to Aldersyde Branch across road allowance at mileage 83.66.

16365—April 22—16366—April 18—Authorizing C.P.R. to construct three spurs for Tyndall Quarry Co., Ltd., near Winnipeg, Man., and spur for J. Wilson, near village cf Como, Que.

16367—April 24—Authorizing C.P.R. to use and operate bridge No. 87.0, Swift Current Subdivision.

Wilson, near village of Como, Que.

16367—April 24—Authorizing C.P.R. to use and operate bridge No. 87.0,
Swift Current Subdivision.

16368—April 23—Authorizing London, Lake Erie Ry. and T. Co. to cross with spur line into their gravel pit London and Port Stanley Gravel
Road, at Lambeth, County of Middlesex, Ontario.

16369—April 26—16370—April 25—Authorizing G.T.R. to construct siding into premises of New Burford Canning Co., Ltd., Twp. of Burford, County of Brant, Ontario, and for Ford Motor Co., Ltd., in the Twp. of Sandwich East, County of Essex, Ont. (Windsor.)

16371—April 24—Amending Order 16150, March 20, 1912, by making Lot 16372—April 24—Authorizing G.T.R. to construct 7 bridges on its Holmedale Branch, Brantford, Ontario.

16373—April 24—Authorizing T.H. & B. Ry. to construct spur into premises of Fretz, Limited, Hamilton, Ontario.

16373—April 24—Authorizing T.H. & B. Ry. to construct spur into premises of Fretz, Limited, Hamilton, Ontario.

16375—April 26—Authorizing C.N.Q. Rv. to construct spur on Prince Albert Street, Tetraultville, now Montreal, Que., for delivery of carload freight to residents.

16376—April 23—Approving revised location of C.N.O. Ry. station 16377—April 24—Authorizing C.N.O. Ry. (Montreal-Port Arthur Line) to 16378—April 24—Authorizing C.N.O. Ry. (Montreal-Port Arthur Line) to 16378—April 24—Authorizing C.N.O. Ry. to cross seven highways in the County of Pontiac, Quebec.

16378—April 24—Authorizing C.N.O. Ry. to cross seven highways in the 16381—April 24—Authorizing C.N.O. Ry. to cross seven highways in the 16381—April 24—Authorizing C.N.O. Ry. to cross seven highways in the 16381—April 24—Authorizing C.N.O. Ry. to cross seven highways in the 16381—April 24—Authorizing C.N.O. Ry. to cross seven highways in the 16381—April 24—Authorizing C.N.O. Ry. to cross seven highways in the 16381—April 24—Authorizing C.N.O. Ry. to cross seven highways in the 16381—April 25—16486—April 25—16486—April 25—16486—April 25—16486—April 25—16486—April 25—16486—April 25—16486—April 25—16486—April 2

Leod, and Cartier Subdivisions, Alta. & Lake Superior Divisions.

16385—April 25—16486—April 22—16487-88—April 25—16489—April of 16387-88—April 25—16480—April properties of the superior Divisions.

Redeliffe Clay Products Co., Ltd., Redeliffe, Alta. For Whiteworth Brothers at Pilot Butte, Sask. For Sovereign Lime Works, near Angus Station, at Pilot Butte, Sask. For Sovereign Lime Works, near Angus Neuville, Oue. For Messrs. F. W. Baird & Son, Parish of St. Jeanne de Neuville, County of Portneuf, Que. For C.P.R. on Lot 95, Parish of St. Manitoba. For C.P.R. on Lot DGS, 25, St. John, city of Winnipeg, Manitoba. For James McLaren Co., Ltd., in Twp. of Campbell, County of Labelle, Que.

16392—April 29—Authorizing C.P.R. to expropriate for purposes of taken and part of N.W. 4 of ing care of traffic, lands in the Parish of Kildonan, and part of N.W. 4 of Sec. 17, Twp. 11, R. 4, E.P.M., to establish East Yard near Winnipeg, Manitoba.