

cost \$3,200; G. A. Fleming, 2-story brick dwelling, Boustead avenue, cost \$2,500; Whaley & Carter, pair 2½-story brick dwellings, Simpson avenue, cost \$6,200; C. W. Chadwick, pair 2-story brick dwellings, 635-637 Shaw street, cost \$5,000; J. & W. H. Avison, pair 2-story and attic brick dwellings 164-6 Margueretta street, cost \$5,000; Eureka Refrigerator Company, 1-story dry house and dry kiln, 52 Noble street, cost \$1,700; J. T. V. May, six 2-story and attic brick veneer dwellings, Brock avenue, near College street, cost \$10,000; R. J. Robson, 2-story and attic brick dwelling, Gladstone avenue, near College street, cost \$1,800; J. M. Smith, three 2½-story brick dwellings, 1062 Bathurst street, cost \$7,400; John M. Scott, 2½-story brick dwelling, 223 Grace street, cost \$3,400; A. T. Graham, pair brick stores 805-8 College street, cost \$4,500; W. J. Sanderson, 2-story brick dwelling, Shaw street, near Bloor, cost \$2,500; Mr. Morley, 2-story and attic brick dwelling, Pearson avenue, cost \$2,500; J. Coulter Co., 3-story brick factory, Lombard street, near church, cost \$8,000; F. S. Duff, pair 2-story and attic brick dwellings, 46-8 Beatrice street, cost \$5,000.

CONTRACTS AWARDED.

ARNPRIOR, ONT.—\$35,000 4½/2 per cent debentures: W. C. Brent, Toronto, purchaser.

WELLAND, ONT.—Plumbing in Goodwin & Ross' store: Griffiths & Grass, contractors.

PORT ARTHUR, ONT.—\$274,000 town debentures: Dominion Securities Corporation, purchaser for \$276,823.

NEW WESTMINSTER, B. C.—Erection of Mosque at Millside for Hindoo colony: Parker & White, contractors.

SYDNEY, N. S.—Erection of St. James church: Chappell Bros., contractors, cost \$14,500. B. Whitten, architect.

ST. BONIFACE, MAN.—Erection of new Public school for the Norwood division: J. H. Tremblay, contractor, cost \$55,880.

FREDERICTON, N. B.—\$60,000 water improvement and sewerage debentures have been sold at par through the City's Brokers.

DUNNVILLE, ONT.—Erection of Knox Presbyterian church: Edgar Neville, London, contractor. F. Shepard, architect.

SASKATOON, SASK.—Erection of new building for the Canadian Bank of Commerce: Canadian White Co., Montreal, contractors.

GLEN PAYNE, ONT.—Installations of Kelsey system of warming and ventilating in public school: James Smart Mfg. Co., Brockville, contractors.

VICTORIA, B. C.—Erection of business block, corner Wharf and Fort streets, for Pither & Leiser: Gribble, Skene & Co., contractors, cost about \$50,000.

UXBRIDGE, ONT.—Installation of Kelsey system of warming and ventilating in the Methodist church: James Smart Mfg. Co., Brockville, contractors.

HAMILTON, ONT.—Construction of terminal station for the Cataract Power Co.: Canadian White Company, Montreal, contractors, cost about \$250,000.

SARNIA, ONT.—Erection of residence on Christina street for W. C. Dillon: Masonry, Corrick & Sons; carpentry, James McIlhagga; painting, Simpson & Carter.

LETHBRIDGE, ALTA.—Erection of three story brick factory for Lethbridge Woollen Mills Co.: Rex Virtue, contractor, cost about \$25,000. J. A. Macdonald, architect.

WINNIPEG, MAN.—The tender of Kelly Bros., Kenora, Ont., for construction of cement piers for the Redwood

bridge has been recommended for acceptance.—The contract for supply of 1,000,000 ties, 6,000,000 feet of logs and 300,000 feet of piling for the C. N. R. has been awarded to James Cowan.

BRAMPTON, ONT.—Erection of Public Library building: Masonry, carpenter work and plastering: Mason & Hill; painting and glazing, James Harmsworth; plumbing, Higgins & Large roofing and tinsmithing, Forbes Roofing Company, Toronto; electric wiring, Benet & Wright, Toronto.

FIRES.

Factory of Silker & Co., Amherst, N. S., damage \$3,000.—Saw and grist mill, etc., Treffis Roberts, Brigham, Que., totally destroyed, loss \$9,000.—Residence of C. A. Case, Duke street, St. Catharines, badly damaged.—Rossner & Brownstone's stable and contents, loss heavy.—Boiler room of the Rossin House, Toronto, damage \$2,500.—Old Folks Home, Bowmanville, Ont., completely destroyed.—Evaporating factory of F. Blasdall at Delaware, Ont., loss \$5,000.—Farm buildings of D. McKinnon, Oak Lake, Man., loss \$4,000.—T. H. & B. car shops, Hamilton, Ont., damage \$10,000.

NOTES.

Walker & Moore, painters, etc., Lindsay, Ont., have assigned to I. E. Weldon.

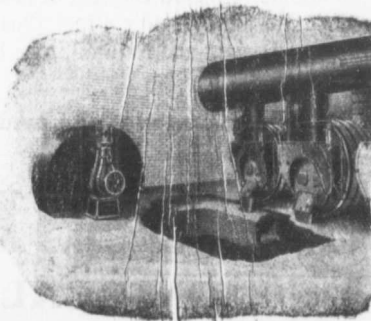
Hydraulic air compression by the system of entraining free air in flowing water and then conducting the water down a shaft until it is under sufficient head to give the desired pressure, at which point the air is intercepted and piped to the surface, is to be tried at South Thomaston, Me. The principle employed is substantially that used at the well-known stations at Magog, P. Q., and Norwich, Conn., but modified so that the head will be furnished by tidal action.

Deep trench excavation in wet sand has proved more economical than tunneling on sewer work at Sydney, N. S. W. The test was made where the sewer was 22 ft. below the surface. On the first section the excavated material was thrown from stage to stage, being handled four times. To save this handling an overhead cable was supported by masts over the line of the trench and the sand was lifted by a hoisting engine and travelling block. This device reduced the cost of excavation from \$1.86 per cubic yard, the figure when casting was

employed, to \$1.62; the sand carried more water where the cable was used, which made the reduction in cost an incomplete measure of the actual gain. The cable was 350 feet long and the masts were 34 feet high. This method of excavation was more economical than tunneling, and the expense of laying concrete and brick in the trench was nearly 50 per cent. less than in tunnel.

Waste gases from rotary cement kilns are been utilized to raise steam in boilers in a cement plant in southern Germany. The boilers are placed in settings built at the ends of the kilns, eight boilers having been placed in this manner, seven of which are in constant service. The boilers supply steam at 110 lb. pressure to a 450-h.-p. engine which drives the twelve rotary kilns in the plant and a coal grinding plant. The large amount of ash and fine raw materials which are driven off from the kilns is said to occasion the one great difficulty in the utilization of the waste gases, in that the ash and fine material threaten to clog the tubes of the boilers, but this could doubtless be largely overcome if water-tube boilers were used.

In Eastern Canada the extent of the trade in wooden pipe in British Columbia is hardly realized, and the enormous business being done in this direction within the short time from the organization gives some idea of the scope for future business. The Pacific Pipe Co., of Vancouver, have just completed the manufacture of 10,000 feet of 18-inch pipe for Fort William, Ont., as well as ten miles of 8-inch pipe for the same municipality. The company are now engaged on an order of 10½ miles of pipe to stand a pressure of from 300 to 500 feet head for the Canadian Pacific Railway in Alberta. This is the biggest pipe contract ever given in Canada. They are also working on an order of 6,500,000 of 24-inch pipe for the White Valley Irrigation & Power Co., at Vernon, B. C., as well as an order of about two miles of 6-inch pipe for Port Arthur. Besides these the firm have just completed installing waterworks systems for Cardston and Claresholm.



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