building, and they were so impressed with the expedition with which the work was carried out that they had illustra-tions of it published in Le Miroir, in Paris. The construction was similar to that of a standard railway trestle in this country. It is 600 ft. long and about 40 ft. high. The work was carried out by the A company of the battalion, under command of Major J. B. Heron, with Lieut. John Hamilton, an old C.P.R. bridge man, in immediate charge. It was at first estimated by the army authorities that the work would take from a month to six weeks, but as before stated, it was built in seven days.

Officers of Battalion.

Following is a complete list of the battalion's officers, giving their former occupations and addresses as far as possible:-

Lieut.-Col. Blair Ripley, C.B.E., D.S.O., Engineer of Grade Separation, C.P.R., Toronto;
Major A. R. Ketterson, D.S.O., Assistant Bridge Engineer, C.P.R., Montreal;
Major T. R. Loudon, Civil Engineer, Toronto;
Capt. and Adjt. E. D. Toye, Storekeeper, Ontario District, Canadian Northern Ry., Toronto;
Major R. R. Holland, District Engineer, National Transcontinental Ry.;

Lieut. R. R. Hicks, Toronto.
Lieut. C. P. Van Norman, Toronto and York
Radial Ry., Toronto;
Lieut. C. A. Scott, City Works Department,

Toronto;
Lieut. P. L. Scott, Electrician, Toronto;
Lieut. John Hamilton, Bridge and Building
master, C.P.R.;

Lieut. R. Francis, Contractor, Timiskaming,

Ont.;
Lieut. J. E. Tremayne, Civil Engineer, Toronto;
Lieut. W. S. Hunter, Contractor, Vancouver,

B.C.;
Lieut. J. M. Berry, Contractor, Toronto;
Lieut. R. Richards, Contractor, Toronto;
Lieut. M. L. Bouzon, Mining Engineer, Cobalt,

Lieut. M. L. Bouzon, Mining Engineer, Cobatt, Ont.;
Lieut. R. Nickle, Civil Engineer, London, Ont.;
Lieut. W. J. Nichol, Civil Engineer, Toronto;
Lieut. R. E. Lindsay, Civil Engineer, Toronto;
Lieut. F. O. D. Keily, Contractor, Winnipeg;
Lieut. H. M. Jupp, Contractor, Orillia, Ont.;
Lieut. E. Jupp, Civil Engineer, Orillia, Ont.;
Lieut. C. M. Lane, Civil Engineer, Montreal;
Lieut. A. S. Millar, Civil Engineer, Toronto;
Lieut. W. J. Wright, Civil Engineer, Toronto;
Lieut. T. Graedioger, Civil Engineer, Montreal;
Lieut. E. Thomas, Civil Engineer, Montreal;
Lieut. H. L. Gilmour, Civil Engineer, Ottawa,
Ont.;

Ont.; Lieut. F. G. Pusey, Contractor, Montreal. Summary of the Battalion's Work.

Following is a summary of the work accomplished by the battalion, after going to France in Oct., 1916, up to Dec. 31, 1918:-

latter method rendered tracks more difficult to rebuild than the blown up ones.

Bridging.

 Somme area, 1917
 981 lin. ft.

 Dunkerque area, 1917
 276
 "

 Flanders front, 1917-1918
 345
 "

 Hesdin to Frevent
 630
 "

 Amiens-Maubeuge, 1918
 2484
 "

 Somme area, 1917

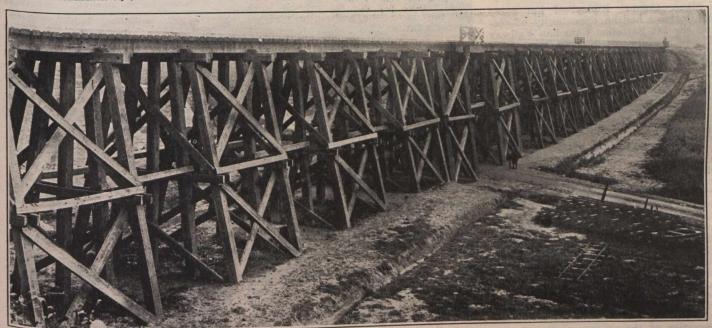
4716 lin. ft.

Bridges re-inforced for French to carry British and U.S. heavy guns. 511 lin. ft. Bomb proofing of Wimereux viaduct 245 " "

This last item covers the recentering of a 3-arch, double-track, masonry bridge about 80 ft. high and the placing of a steel rail, bomb bursting, floor thereon. About 175,000 f.b.m. of timber and 31/2 miles of steel rails were used. The Frevent trestle also contained about 150,000 f.b.m. of timber, and altogether, after going to France, the battalion placed in bridges, approximately 1,500,000 f.b.m.

Of culverts of various sizes over 6,000 ft. were laid of corrugated iron, concrete and wooden box.

Water supply works—At Candas, 8 miles of 4 in. pipe line were laid in trench 2 ft. deep, pumping station was built and pumps installed to deliver against a 200 ft. head. Earth work, 1400



Trestle Bridge on the Frevent-Hesdin Strategic Railway in France.

600 ft. long, 40 ft. high, containing over 150,000 f.b.m. of timber; built in 7 days by 1st Battalion Canadian Railway Troops.

Standard Gauge Railways-April, 1917-Dec. 31,

1918.

Miles

outs.

15

122 304

Yards graded. 55,600 30,320 72,000 22,000 55,250

33,200

Major F. G. Cross, Assistant Engineer, C.P.R., Calgary, Alta.;
Major H. B. Muckelstone, Assistant Chief Engineer of Irrigation, Natural Resources Department, Calgary, Alta.;
Major J. B. Heron, District Engineer, Canadian Northern Ry., Toronto;
Major W. Woods, Consulting Engineer and Contractor, Toronto;
Major W. Woods, Consulting Engineer and Major W. Woods, Consulting Engineer and Contractor, Toronto;
Major A. T. MacDonald, Assistant Engineer, Halifax Ocean Terminals, Intercolonial Ry.;
Major L. B. Allen, City Works Department, Toronto;
Major L. B. Allen, City Works Department, Capt. J. H. Black, Resident Engineer, C.P.R., Major L. B. Allen, City Works Department, Toronto;
Capt. J. H. Black, Resident Engineer, C.P.R., Capt. W. J. Norman, Resident Engineer, Welland Canal, St. Catharines, Ont.;
Capt. E. P. Muntz, Resident Engineer, Welland Capt. G. H. Pethick, Engineer and Contractor, Vancouver, B.C.;
Capt. G. S. Grant, Contractor, Ottawa, Ont.;
Capt. G. S. Grant, Contractor, Ottawa, Ont.;
Capt. G. B. Little, Toronto;
Clapt. H. R. MacQueen, Civil Engineer, New Capt. H. G. Hanson, Architect, Montreal;
Capt. C. P. Fenwick, Medical Officer, Toronto;
Lieut. C. P. Fenwick, Medical Officer, Toronto;
Lieut. F. A. R. McNair, City Works Depart-Lieut. F. A. R. McNair, City Works Depart-Lieut. L. McD. Fleming, formerly secretary to Ponto;
Circular Joseph Johnston, Toronto;

Lieut. Joseph Johnston, Toronto;

On the reconstruction between Amiens and Maubeuge, 70 miles of new British rails were laid. German rails salvaged from their dumps and laid in the battalion's work, amounted to 5 miles. The balance of this work was construction, building one main line from two damaged ones, and 78 miles was thus built. The tracks were either systematically blown up or destroyed with a machine made for the purpose and which was dragged behind a heavy locomotive. This

..... 238.75

cu. yd. Rock 400 cu. yd.

On Somme front, 1917—Water supply put in at Peronne and at Roisel. included erection of water towers, stand pipes, pipe lines and putting in of permanent pumping plants.

On Flanders front, 1917—Six miles of 6 in. pipe were laid in 3 ft. trench, between pumping plant, west of Proven and International Corners. Ten miles of 4 in. pipe were lowered between International Corners and Poperinghe, with-

national Corners and Poperinghe, without interrupting water supply. Excavation and backfill—12,000 cu. yd.

Boubers system, 1918—Laid 887 ft. of 3 in. pipe and 158 ft. of 6 in. pipe, also erected stand pipe and water tower.

Omiecourt system, 1918—Set up new pumping plant and repaired old line that had been broken by bombing.

Peronne, 1918—Repaired existing system that had been put in by the Huns

tem that had been put in by the Huns and made extensions to it.

Roisel, 1918-Repaired existing system, erected new water tower and stand pipes to supply the yard.

Caudry, 1918—Repaired existing sys-