

1 Sergeants' mess room, 25 ft. wide by 50 ft. long.

1 Orderly room, ditto.

1 Artificers' room for tailor, shoe-maker, harness-maker and armourer, 25 ft. wide by 65 ft. long.

1 Carpenters' and Blacksmith's shop, 30 ft. wide by 30 ft. long.

1 Bake house, 20 ft. wide by 25 ft. long.

1 Wash-house, size, ditto.

2 Stables, 30 ft. wide by 95 ft. long, to hold 68 horses.

1 Sick stable (not shown on plan).

Walls throughout 9 ft. in height.

I would recommend the erection of these buildings at once.

With regard to the construction of the section buildings at Regina—

The contract for the buildings was given to two different firms—one Messrs. James Reilly & Co., Sherbrooke, Ont., and the other to Messrs. Logan & Doherty, of Ottawa.

There are three different classes of buildings: barracks, kitchens and stables.

The barrack buildings are of two different sizes—one 16 feet wide by 48 feet long, and 11 feet wall, and one 16 feet by 24 feet, and same height.

The kitchens furnished by Mr. Reilly are 18 feet by 10 feet, and intended for placing against the house.

Messrs. Logan & O'Doherty's kitchens are 12 feet by 16 feet, with gable roofs, and are connected to the house by a passage 8 feet long.

The stables are all of the same dimensions—50 feet long by 30 feet wide.

The different buildings are all of the same principle of construction. The main difference between the Reilly portable building and the Logan & O'Doherty is that in Reilly's there is no air space, the sections being composed of upright boards, grooved and tongued, and held together by diagonal boards firmly nailed, and tongued and grooved, with two thickness of felt paper between. Each section is constructed with a lap, which fits a corresponding lap on adjoining section. The sections are fastened together by screws. In addition, the bottom of each is attached to the sill of the foundation. Likewise, the beam supporting the floor is continuous, and to this each section is firmly screwed by four 3-inch screws.

The roof consists of two thickness of matched lumber, with air space of an inch, and lined between with felt paper, the upper and lower boards breaking joint. The roof is attached to the sections of the building by iron brackets screwed on to an inch board, which is firmly attached to the side wall at the top.

The flooring throughout is single thickness.

The Logan & O'Doherty building is, as the Reilly, composed of sections, but of different construction—each section is composed of a small frame, to which is nailed upright matched boards outside and in, with two thicknesses of tarred paper, thus an air space of one inch is obtained. The sections fit evenly together, without any lap or joint, and are fastened by three bolts.

The foundation is bolted together throughout; and the beams of the upper floor are bolted to the walls of the building, thus preventing spread.

The floor beams are additionally supported by a strap screwed to each section of the building.

The foundation floor is made in sections, and of two thickness, with tarred paper between, and bolted together; the upper floor is also in sections, but only of one thickness.

Barrack accommodation for one hundred men; stabling for sixty horses will be provided when all the buildings are erected.

Messrs. James Reilly & Co. have completed:—

10 buildings, 16 feet by 48 feet.

8 " 16 " " 24 "

5 kitchens, 10 " " 18 "

In a few weeks they will have completed the stables.