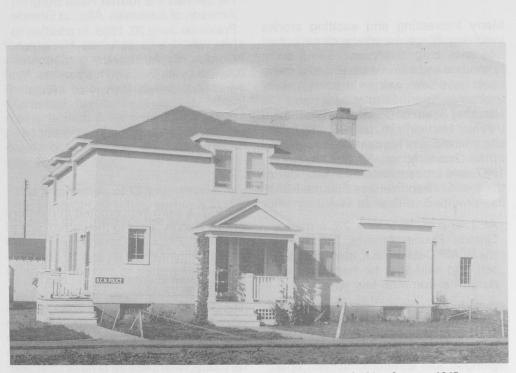Provincial Police took over on March 1, 1917. By September 30, only Peace River Detachment, with an establishment of one inspector, two staff sergeants, two sergeants, one corporal, five constables and one special constable had survived in the Peace River area. It closed in 1918, leaving Jasper, Brule, and Fort Fitzgerald Detachments as vestiges of the Force in that province.

In December 1918, the federal government decided that the Royal North-West Mounted Police would be the sole federal force in Western Canada. Subsequently, in 1919, the strength of the Force was increased, districts were completely reorganized and the District of Northern Alberta was created. It included the portion of British Columbia east of the Rocky Mountains, the western portion of the Northwest Territories, and the northern part of the province of Alberta.

With this reorganization, the Force grew in strength from an almost all-time low of 303 men in September, 1918, up to 1,600 men one year later. As a result of the increased manpower, Peace River, Grande Prairie, and Grouard Detachments were reopened as part of "G" Division, which had its headquarters in Edmonton.

In 1922, Grande Prairie Detachment was closed once more and reopened two years later in 1924. Peace River and Grande Prairie Detachments closed again in 1929, this time for three years, leaving only Grouard and Fort Chipewan Detachments in the Peace River area. On April 1, 1932, the Alberta Provincial Police was absorbed by the Royal Canadian Mounted Police and a new division, designated as "K", was established. It was responsible for federal and provincial duties in Alberta, as well as in parts of Northern Saskatchewan and the Rocky Mountains national parks. Peace River became Sub-Division headquarters for 12 detachments, including one-man detachments at Hythe and Wembley.

New detachment located near the intersection of 100th Street and 101st Avenue, 1945.