

BOW RIVER BRIDGE.

This bridge crosses the Bow River at the town of Calgary, N.W.T.

During 1892-93 the following repairs and improvements were made on this bridge. The chords were raised to original level and corbels were placed on the piers. Braces were provided and put in. The trusses were jacked up and the bolts and rods were tightened. Overhead joists, six in number, were provided and fixed.

The bases of the piers were rip-rapped with large flat bedded stones and the roadway of the bridge and the approaches were planked diagonally with Douglas fir, 3 inches in thickness.

The cost of these repairs amounted to \$1,773.50.

OLD MAN'S RIVER BRIDGE.

This structure crosses the Old Man's River, about $1\frac{1}{2}$ miles west of the town of Macleod, in the centre of the west half of section 10, township 9, range 26, west of the 4th meridian.

In April, 1891, a contract was entered into for the construction of a bridge across the river, to consist of two spans of 150 feet each, one pier, two abutments and excavation and trestle work approach on the north side, and an embankment on the south side, the whole being completed by the 31st December, 1891. Wind braces were also put in, this work being under the direct charge of an officer of this department.

Repairs to the bridge consisting principally in tightening up braces, rods, bolts, etc., were commenced in September and closed at the end of November, 1892. This work was much delayed by high winds which lasted for thirty-three consecutive days, their velocity at times being sixty miles an hour, and the bridge was thereby thrown out of plumb. It is now anchored at both ends to trees which, will no doubt, relieve it when subject to any great strain. The expenditure amounted to \$883.30.

VI.—SURVEYS AND EXAMINATIONS.

During the year surveys and examinations were made at the undermentioned localities:—

- Bass River, Colchester Co., N.S., construction of wharf.
- Bear River, Digby Co., N.S., removal of bridge.
- Canada Creek, King's Co., N.S., construction of block.
- Dunn's Lake, Antigonish Co., N.S., opening channel.
- Five Islands, Colchester Co., N.S., repairs to wharf.
- Grady's Island, Colchester Co., N.S., forming a boat harbour.
- La Have Island, Lunenburg Co., N.S., opening channel.
- Lawlor's Island, Halifax Co., N.S., construction of quarantine wharf.
- Mackay's Point, Victoria Co., N.S., deepening boat channel.
- Morden, King's Co., N.S., repairs to wharf.
- New Harbour, Guysboro' Co., N.S., construction of pier.
- New Haven, Victoria Co., N.S., removal of boulders.
- Porter's Lake, Halifax Co., N.S., opening channel.
- Salmon River, Digby Co., N.S., repairs to pier.
- Sydney, Cape Breton Co., N.S., construction of quarantine wharf.
- Western Head, Queen's Co., N.S., repairs to breakwater.
- Anderson's Hollow, Albert Co., N.B., extension of wharf.
- Buctouche, Kent Co., N.B., reconstruction of wharf.
- Campbellton, Restigouche Co., N.B., construction of block.
- Cape Tormentine, Westmoreland Co., N.B., strengthening wharf.
- Hopewell Cape, Albert Co., N.B., repair to wharf.