

of this beautiful fossil is eighty-eight millimetres, or nearly three inches and a half. Its maximum diameter is twenty-six mm. at the larger end and about twenty mm. at the smaller. Its surface markings consist of numerous and densely crowded, but not very regularly arranged, transverse striæ, or minute impressed lines, which are crossed by still more minute longitudinal raised ridges, that are not visible without the aid of a lens. The minuteness of this reticulation gives quite a silky sheen to the exterior of the specimen. Its siphuncle is apparently central or very nearly central.

A large example of *O. tenuistriatum*, with the test preserved, in the same Museum, from the Trenton limestone at Hull, P.Q., was purchased from a quarryman by Dr. Ami and the writer in May, 1889. It is fully seven inches and a half in length, by about fifteen mm. in diameter at the smaller end, and thirty eight at the larger. Its surface also is very minutely reticulated and has a peculiar silky appearance.

A fragment not quite two inches in length and about three quarters of an inch in its maximum breadth, collected by Mr. T. C. Weston in 1866 from the Trenton limestone at the Mile End, Montreal, is also probably referable to this species. The surface of this specimen, which although well preserved is not silky in texture, is finely reticulate by densely crowded and very minute transverse striæ, crossed by equally minute and close set longitudinal raised lines and by rather larger and comparatively distant longitudinal ridges, which are from half a millimetre to one mm. and a half apart. It is only these latter that are sufficiently large to be visible to the naked eye.

ORTHOCERAS WESTONI. (Sp. nov.)

Shell medium sized, longicone, straight, increasing very gradually in thickness and slightly but perhaps abnormally compressed. Surface marked by very oblique and rather distant flattened annulations, about a millimetre broad and separated by flat spaces from four to five mm. wide. Internal structure not very well shewn in the only specimen collected, but the siphuncle, as