PLATE V.-AMERICAN FALLS FROM BRINK OF GOERGE ON CANADIAN SIDE.

Plains of Great Western of Lockport dolomite along entire face. Luna Falls at right, with "Rock of Ages" at its base. Sheet of water thin over entire crest.
ILLUSTRATIONS II

Plate VI. Upper Great Gorge of Niagara River, Looking South from West End of Cantilever Railroad Bridge, Falls and International Bridge in Distance, Nearly 2 Miles Away.

Plate VII. Lower End of Upper Great Gorge in Foreground and Head of Narrow Whirlpool Rapids Gorge in Middle Distance, Looking North Under Railroad Bridges.

Plate VIII. Whirlpool Rapids Gorge, Looking North Downstream from Near East End of Grand Trunk Railway Bridge.

Plate IX. Eddy Basin in Foreground and Lower End of Whirlpool Rapids Gorge in Center, Looking Southeast, Upstream.

Plate X. Eddy Basin in Foreground and the Whirlpool Beyond, Looking North.

Plate XI. The Whirlpool and Deep Pool Section of Lower Great Gorge Looking Northeast.

Plate XII. Deep Pool Section of Lower Great Gorge, Looking Northeast.

Plate XIII. Shallow Section of Lower Great Gorge, Looking Southwest, Upstream.
PLATE XIV.-OLD NARROW GORGE, LOOKING NORTH FROM POINT NEAR NIAGARA UNIVERSITY.

Lower end of Lower Great gorge in left foreground. Old Narrow gorge begins where tracks in foreground near water bend to right. Lewiston and lower river in distance. Talus on west side for 20 to 25 feet above water swept bare of trees by ice jam of February, 1909.

PLATE XV.-OLD NARROW GORGE AND LEWISTON BRANCH GORGE TO THE SOUTH OF BURG, LOOKING NORTH FROM POINT ABOUT 350 YARDS SOUTH OF SKELETON RAVINE.

Nutrient and some part of gorge is shown. The pavement is the line of the east escarpment which extends toward the mouth of the gorge at right. Talus on west side for 20 to 25 feet above water.

PLATE XVI.-ROCK SECTION EXPOSED IN EAST BLUFF OF THE NORTHERN PART OF NIAGARA GORGE ABOVE NEW YORK CENTRAL RAILROAD TRACK.

a, Albion sandstone; b, Lockport dolomite; c, Wolcott limestone member; d, Irondequoit limestone member; e, Rochester shale member of the Clinton; f, Lockport dolomite.

PLATE XVII.-TERRACE ICAPPED BY WHIRLPOOL SANDSTONE MEMBER OF ALBION SANDSTONE, WITH NIAGARA ESCARPMENT AT RIGHT, LOOKING EAST FROM ROAD ABOVE QUEENSTON.

Low till bluff of Cataract basin in distance over outer part of terrace.

PLATE XX.-LOCAL IRREGULARITY IN ALBION SANDSTONE IN NIAGARA GORGE.

The horizon worn masses are interrupted by an escarpment which extends toward the east escarpment of the gorge.

PLATE XXI.-SEDIMENTARY TROUGH STRUCTURE IN ALBION SANDSTONE ALONG THE NEW YORK CENTRAL RAILROAD IN NIAGARA GORGE SOUTH OF LEWISTON.

PLATE XXII.-CREST BETWEEN TWO SEDIMENTARY TROUGH STRUCTURES IN ALBION SANDSTONE AT LEWISTON, N. Y.

PLATE XXIII.-REEF STRUCTURE AT TOP OF IRONDEQUOIT LIMESTONE MEMBER OF CLINTON FORMATION PROJECTING INTO ROCHESTER SHALE MEMBER IN NIAGARA GORGE.

PLATE XXIV.-SERIES OF CURVED PLATES IN LOCKPORT LIMESTONE.

In old quarry 8½ miles east of Niagara Falls, N. Y.

PLATE XXV.-DIMPLED SURFACE AND RIPPLE MARKS ON UPPER BEDS OF LOCKPORT DOLOMITE AT PENNSYLVANIA CENTRE.