

Tunnel at summit—3 miles 197 yards.

Three reservoirs viz:—

1st. on Gillies' fall } Dam—48 feet,  
for a drainage of } Surface—7181 acres,  
11202.718 acres. } Contents—3470470. cub. yds  
Quantity of water to be stored, 3225564.

2d. on Warner's br. } Dam—38 feet,  
for a drainage of } Surface—26242 acres,  
3346.447 acres. } Contents—1072056 cub. yds.  
Quantity of water to be stored, 1003404 cubic yards.

3d on Beaver Dam } Dam—40 feet,  
cr'k for drainage } Surface—20.707 acres,  
of 2718.82 acres. } Contents—890861 cub. yards.  
Quantity of water to be stored, 807.113,

Three feeders, viz:—

1st. From Warner's branch, length—1660 yards,

2d. " Gillies' falls, (not located,) estimated at 757 yds.

3d. " Beaver Dam, length—553 yards.

In the examinations of this route, from the nature of the instructions, only such lines were run as were necessary to satisfy the question of practicability, with due supply of water for the summit, with the exception of an experimental line of levels, down the Linganore, which was done before this question was determined, as a preliminary step towards location, had the result proved favorable. The Linganore party was then transferred to the second, or

### SENECA ROUTE.

The surveys here were conducted with greater minuteness, owing to the difference of opinion existing as to its practicability, and also as the data obtained would be in some points common to the lower or Brookville Route.

Following Parr's Ridge in a S. W. direction we encounter the different sources of the Patuxent as far as Damascus, where the Damascus Ridge, a secondary one, is found nearly at right angles to it in an easterly direction, separating the head waters of the Seneca from the Patuxent. This takes a more southerly course near H. Griffiths, (see general Map,) and is there subdivided into the Cracklinton Ridge, the principal, and the Unity, the secondary ridge. These two ridges divide the waters of the Seneca, Hawkins River and Patuxent. Following the course of the Cracklinton Ridge other ridges of greater or less magnitude diverge from it, which will be noticed in the description of the Brookville Route.

A canal through the vallies of the Seneca and Patuxent would therefore pass entirely to the Eastward of Parr's Ridge. In the route in question, to which our attention was drawn from previous surveys made under the direction of J. Tremble, Esq. the object is to pass at a point where but a single ridge (the Damascus Ridge) would be encountered, and as it is only among the sources of t.