



500 feet in
a well better
them will
some embt.
tractors.

Length 3500 feet. On the first 1500 feet there will be about 1200 feet in length of water. The next few hundred feet in this distance will be common excavation, there will also be some embankment & solid rock. The surface of the ground on the next 900 feet taken at distances of 100 feet, will be as follows: 490.00 below the plane of the road - 22.17 do - 43.35 do - 62.25 do - 51.19 do - 66.47 do - 22.50 do - 14.00 above. A stone masonry wall of which will be 140 ft long and 48 feet high with occupy a part of this space, the remainder will be filled with earth. The embt. will be raised above the common level of the road to allow for settling, it will be 27 feet wide on the top. The slope of each side to have a base of 1/4 feet to every foot rise. If it be determined to erect a viaduct with stone pier and abutments and a superstructure of wood, the heavy embankment will be reduced to a length of about 150 feet. The materials for the embankment will be taken from the side hills, and from the flat above and below the line. They will be carted on to the road in layers of such depth as the engines may direct. At the end of the embankment is a deep cut about 80 feet long, the deepest part 10 feet. The remainder of the section will be built from 1 to 16 feet deep. The materials for this are to be taken from the flat on either side, and to be carted on to the road in layers. Two drains to be built by the contractor, gutting throughout Section.

Length 3900 feet. The line passes along the foot of a rocky bluff 1500 feet. A 1 1/2 ft wall will be required on about 300 feet of this distance. There will be a considerable quantity of solid rock to be excavated, also some common excavation & embankment. The items of work on the remainder of the section will be common excav. & embt. The materials for the latter will be taken from the side hill. Three drains to be built by the contractor gutting throughout Section.

Length 3100 feet. The work on the first 1000 feet will be principally embankment, some excavation however will be required. The remainder of the section will be principally common excavation. There will be some solid rock and perhaps hard pan. At Station No. 407+0 there will be 200 feet of slope wall required. Three drains to be built by contractor, gutting throughout Section.