PROJECT OVERVIEW AND CHALLENGES

Bradshaw Construction installed a 10’Ø Hand Mined Liner Plate tunnel under CSX Railroad in Staunton, Virginia. The tunnel was excavated from a portal through Boulder Fill in the embankment of the railroad. Due to the voids in the fill, a cementitious grout curtain was pumped over the tunnel alignment before mining. In order to mitigate the risks settlement and the danger of mining through boulders, the tunnel heading was bulk-headed, and more grout was pumped ahead of mining upon completion of each mining shift. 84” RCP was installed in the tunnel for storm drainage.