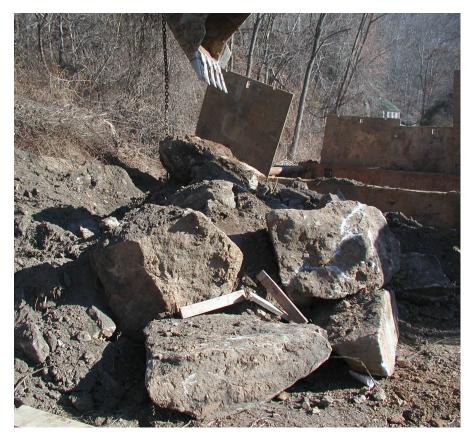
# **Project Profile: HAND TUNNELING**



## **MD Route 32 Bridge Replacement**

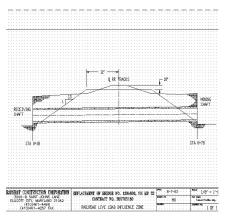
Sykesville, MD



### **PROJECT OVERVIEW AND CHALLENGES**

Bradshaw Construction hand mined a 66 inch liner plate tunnel and installed a 48 inch reinforced concrete storm drain under a CSX Railroad. The removal of boulders during shaft and tunnel excavation required extreme care so as not to cause settlement of the railroad.





#### **PROJECT INFORMATION - 405**

#### OWNER:

Maryland State Highway Administration 410-545-0300

#### **ENGINEER:**

DMJM Harris Brian Harris 215-735-0903

## **CONTRACTOR:**

Joseph B. Fay Company; James McNelis; 410-424-3380; jmcnelis@jbfayco.com

## **COMPLETION DATE:**

12/19/2003

## **GEOLOGY:**

Silty Sand with Large Boulders

#### **EXCAVATION METHOD:**

Hand Mine

## MINING DIMENSIONS:

60' x 66"Ø

#### FINAL LINING:

48" Reinforced Concrete Pipe

## FOR MORE INFORMATION:

Eric Eisold, Vice President 410-970-8300 EEisold@BradshawCC.com Refer to Project 405