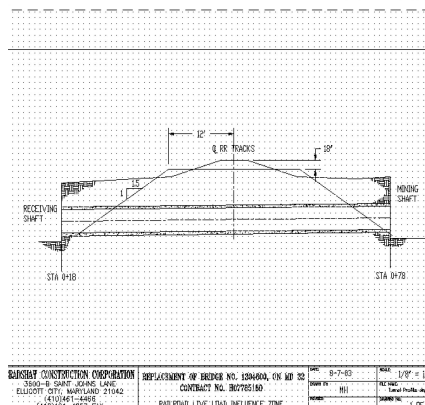


MD Route 32 Bridge Replacement Sykesville, MD



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