Project Profile: TBM TUNNELING

BRADSHAW CONSTRUCTION CORPORATION
TUNNELING SPECIALISTS

Appalachian State Steam Tunnel
Boone, NC



PROJECT OVERVIEW AND CHALLENGES

Bradshaw Construction Corporation successfully installed 220' of 84" RCP to act as a steam tunnel for the Appalachian State University. This was achieved by utilizing a 101.5" Lovat TBM capable of mining through hard rock conditions. The pipe was jacked directly behind the TBM. Soil conditions consisted of hard biotite gneiss rock.





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OWNER:
Appalachian State University
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ENGINEER:
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CONTRACTOR:
Crowder Construction Company

COMPLETION DATE:
10/2/2009

GEOLOGY:
Hard Biotite Gneiss Rock

EXCAVATION METHOD:
Lovat TBM: 101.5" Ø

MINING DIMENSIONS:
220' x 101.5" Ø

FINAL LINING:
RCP, 84" Ø

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