

Sources:

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Burger, Werner. (2016). "Principles of Pressurized Face TBM Tunneling." Tunneling Fundamentals, practice, and Innovations Short Course. Colorado School of Mines: Golden, CO.
(2016). "Tracking the world's mega-TBMs." Tunnel Talk.
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Note:

Data only shown for TBMs greater than 45 ft diameter

MassDOT North-South Rail Link Feasibility Assessment

Increase in TBM Diameters, 1994 to 2017

Figure 3.1
November 3, 2017



Real Experienced Face Pressure During Excavation

Source:

Burger, Werner. (2016). "Principles of Pressurized Face TBM Tunneling." Tunneling Fundamentals, practice, and Innovations Short Course. Colorado School of Mines: Golden, CO.

MassDOT North-South Rail Link Feasibility Assessment

Increase in TBM Face Pressures, 1983 to 2017

Face Pressure (bar)Tunnel Diamters (ft)

November 3, 20	017









FEMA Flood Map - CA/T and North Station Area

0.2% Annual Chance Flood Hazard

1% Annual Chance Flood Hazard

Figure 4.3

November 3, 2017





1% Annual Chance Flood Hazard

Figure 4.4

November 3, 2017







Source:

Section from Technical Report No. 3. Schematic Design Report. North South Rail Link Project. Top of rock information developed from publically available geotechnical data, including Tufts University Boston Surface Project and publications by the Boston Society of Civil Engineers. Boston Subsurface Project (2004). Tufts University. http://bostonsoil.atech.tufts.edu











Note: Numbers refer to building numbers

show



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South Station Aerial Views – Development 2001 to 2017

2005 boole Earlia
2017 oogle Earth
Figure 7.5
November 3, 2017