



Charles D. Baker, Governor  
Karyn E. Polito, Lieutenant Governor  
Stephanie Pollack, MassDOT Secretary & CEO  
Steve Poflak, General Manager

**massDOT**  
Massachusetts Department of Transportation

## DESIGN DIRECTIVE

**To:** Distribution

**From:** Erik Stoothoff, P.E.   
Chief Engineer

**Date:** April 17, 2019

**RE:** Material Selection

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Design for new and rehabilitated facilities shall conduct a materials selection process that, at a minimum, documents material justification considering the following:

- Maintenance
  - Cost of Maintenance
  - Frequency of Maintenance
  - Ease of Maintenance
- Durability
  - Impact Resistance
  - Vandal Resistance
  - Corrosion Resistance
  - Ease of Repair
- Constructability
  - Quality Control
  - Contractor Pool
  - Ease of Transport
  - Ease of Assembly
- Code Compliance
- MBTA Standards Adherence
- Risk/Insurance Recommendation
- Environmental Impact

In the event that conditions warrant deviation from this directive, a design waiver signed by the Chief Engineer and the department owning the scope of work will be required of the project.