



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



## DESIGN DIRECTIVE

**To:** Distribution

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

**Date:** April 17, 2019

**RE:** Electric Conduits

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This design directive is intended to consolidate, reiterate, supplement, and clarify the MBTA's approach, preferences, and requirements for conduit design and installation.

- Conduit shall be surface mounted.
- Conduit shall never be embedded into concrete elements.
- All conduit shall be schedule 80 RGS at a minimum.
- All empty conduit that is not filled, shall be provided with pull string.
- Empty conduit shall have pull string installed.
- Spare Conduit shall be provided. Preference is to achieve 50% spare capacity, however Designer of record shall make reasonable recommendation considering:
  - criticality of service carried
  - encroachment into publicly accessible areas
  - coverage of underlying structures

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.