



# ENGINEERING PRACTICES

ORIGINAL ISSUE DATE  
**06/23/2014**

NUMBER

REVISED DATE  
**05/31/2018**

**EP3017**

TITLE

**REQUIREMENTS FOR CONSTRUCTION DESIGN AND MONITORING OF OVERBUILDS AND ADJACENT CONSTRUCTION OF THE AMTRAK RIGHT-OF-WAY**

RECOMMENDED by  
**John Brun**

DATE  
**06/23/14**

PAGE

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APPROVED by CHIEF ENGR, STRUCTURES  
**James Richter**

DATE  
**06/23/14**

OF

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## SCOPE AND NATURE

These specifications establish a uniform policy for construction of structures near, adjacent and overtop existing Amtrak Tunnels.

No net change in the load on the tunnel structure, no unbalanced loads on the tunnel structure, caissons should be pre-drilled to at least the elevation of the tunnel invert, and all plans and calculations must be signed and sealed by a Professional Engineer

The careful investigation of the impacts of adjacent construction on existing Amtrak tunnels and potential disturbance of the rock or soil envelope in contact with Amtrak tunnels is vital to avoid immediate damages or long-term reduction of their structural integrity or loss of watertight characteristics. Further, construction activities shall maintain safe and continuous use for movement of trains and auxiliary.

## DEFINITIONS

ODC - Owner/Developer/Contractor

ZOI - Zone of Influence

PPV - Peak Particle Velocity

CLSM - Controlled Low Strength Material

RWP – Roadway Worker Protection

OCS – Overhead Cable System

## SPECIAL REFERENCE

Engineering Practice 3003 – Blasting Procedures

FHWA Publication FHWA-NHI-10-016 – Drilled Shafts: Construction Procedures & LFRD Design Methods

Contractors shall comply with procedures detailed in the following specifications, when applicable:

Section	Title	Revision No.	Revision Date
02262A	Construction of Structures Adjacent to Existing Amtrak Underground Facilities	1	05/31/18

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**SPECIAL MATERIALS**

Not Applicable

**PROCEDURE**

1. The Contractor shall conform to the applicable specifications.
2. Amtrak I&C shall assure that agencies and other third parties proposing construction on or adjacent to Amtrak Right-of-Way conform to Amtrak requirements detailed herein.
3. Amtrak Design and Construction shall review the Contractor’s proposed design and construction procedures for conformance with specifications, with sound engineering design practice and with the procedures detailed in the applicable Engineering Practice documents.
4. Amtrak Construction shall monitor the activities of the Contractor on-site to assure compliance/ adherence to approved procedures throughout the construction period.

**REPORTING**

As detailed in the specifications.

**RESPONSIBILITY**

Amtrak I&C Staff	Comply with Procedure
Director Project Initiation & Development	Assure Compliance
Amtrak Design Staff	Comply with Procedure
Director Structures Design	Assure Compliance
Amtrak Construction Staff	Comply with Procedure
Deputy Chief Engineer Construction	Assure compliance