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| Version | Date | Description of Revisions |
| 1 | August 30, 2006 | Approved final document. |
| 2 | October 16, 2007 | Minor revisions by Legal Services. |
| 3 | November 11, 2009 | Modified ‘Related Sections’ |
| 4 | June 4, 2012 | Addition of References and Replacement Parts sections on this page |
| 5 | June 28, 2012 | Reformatted to Remove White Space |
| 6 | August 6, 2013 | New Format |
| 7 | November 11, 2013 | First draft review by AV |
| 8 | March 21, 2016 | Section revised based on OPSS 403 (AAM) |

NOTE:

This is a CONTROLLED Document. Any documents appearing in paper form are not controlled and should be checked against the on-line file version prior to use.

**Notice:** This Document hardcopy must be used for reference purpose only.

**The on-line copy is the current version of the document.**

# General

## Section Includes

### Work required in order to remove rock from excavations.

### Classification of Rock Excavation.

## Related Sections

### [Under "Related Sections", identify other Sections that are related to, and/or dependent on, the work results or information specified elsewhere. The list should be limited to Sections with specific information that the reader might expect to find in this Section, but is specified elsewhere. For example, if hardware for aluminum entrances is specified in the aluminum entrance Section, a cross-reference would be appropriate in the finish hardware Section. The purpose of this cross-referencing is for information only, to aid in finding those other requirements—not to define the scope of the Section.

### Cross-referencing here may also be used to coordinate assemblies or systems whose components may span multiple Sections and which must meet certain performance requirements as an assembly or system.

### Contractor is responsible for coordination of the Work. Contractor is responsible for being familiar with and incorporating all required elements of cross-referenced Specifications cited.

### This Section is to be completed/updated during the design development by the Consultant. If it is not applicable to the section for the specific project it may be deleted.]

### [List Sections specifying installation of products supplied but not installed under this Section and indicate specific items.]

### Section [\_\_\_\_\_\_ – \_\_\_\_\_\_\_\_\_\_\_\_]: Execution requirements for ...[item]... specified under this Section.

### [List Sections specifying products installed but not supplied under this Section and indicate specific items.]

### Section [\_\_\_\_\_\_ – \_\_\_\_\_\_\_\_\_\_\_\_]: Product requirements for ...[item]... for installation under this Section.

### [List Sections specifying related requirements.]

### Section [\_\_\_\_\_\_ – \_\_\_\_\_\_\_\_\_\_\_\_]: [Optional short phrase indicating relationship].

#### Section 01351 – Health and Safety

#### Section 02315 – Excavation, Trenching and Backfilling

## References

### Ontario Provincial Standards for Roads and Public Works (OPSS)

#### OPSS 403 Rock Excavation for Pipelines, Utilities and Associated Structures in Open Cut (Nov 2010)

## Definitions

### OPSS 403 shall be followed with the following amendments:

403.03 Definitions is amended by deleting the definition of “Rock” and replacing it with the following:

##### **Rock:** means rock as defined in OPSS206. Frozen material not classified as rock.

403.03 Definitions is amended by the addition of the following:

##### **Common Excavation:** Excavation of materials of whatever nature, which are not included under the definitions of rock excavation.

# PRODUCTS (NOT USED)

# EXECUTION

## OPSS 403 shall be followed with the following amendments:

403.07.02 Use of Explosives is amended by the addition of the following:

##### The use of explosives is not permitted.

403.07.03 Management of Excess Material is amended by the addition of the following:

##### Dispose of any surplus, removed rock, off Site.

##### The Unit Price shall include the transport off Site and disposal of Rock removed.

## Protection

### Prevent damage to surroundings and injury to persons.

## Rock Removal

### Remove rock in accordance with the alignments, profiles, and cross sections indicated on the Contract Drawings.

### Use rock removal procedures to produce uniform and stable excavation surfaces. Minimize overbreak in order to avoid damage to adjacent structures.

### Scale, pressure wash and broom clean all rock surfaces that are to bond to concrete.

### Excavate trenches to lines and grades a minimum of 150 mm below the pipe invert(s) indicated on the Contract Drawings. Provide recesses for bell and spigot pipe to ensure that the bearing will occur uniformly along the barrel of the pipe.

### Cut trenches to the widths as indicated on the Contract Drawings.

### Remove boulders and fragments that may slide or roll into the excavated areas.

### Correct unauthorized rock removal at no extra cost to the Region, in accordance with the backfilling requirements specified in Section 02315 - Excavation, Trenching and Backfilling.

### Co-ordinate this Section with the requirements of Section 01351 - Health and Safety.

**END OF SECTION**