



MEMO

DATE: October 7, 2015

SUBJECT: Publication 222, Geotechnical Investigation Manual
2015 gINT Final Edition

TO: District Executives

FROM: Robert Horwhat, P.E., Acting Chief
Bureau of Project Delivery
Innovation and Support Services Division

A handwritten signature in black ink, appearing to read "R Horwhat", is written over the "FROM:" field of the memo.

The Geotechnical Section in the Bureau of Project Delivery is releasing the 2015 gINT Final Edition of the Geotechnical Investigation Manual, Publication 222. The gINT Final Edition of Publication 222 supersedes Publication 222, Geotechnical Investigation Manual issued May 2014 and Strike-Off letter 481-14-05. This issuance is effective immediately for all projects not yet in the preliminary design phase.

To promote time-neutrality and cost-neutrality of this issuance, any Department project that is currently at or beyond the geotechnical development phase (i.e., bidding and contracting of geotechnical drilling) may be completed under the May 2014 Edition of the Publication 222 specifications.

The gINT Final Edition of Publication 222 is available electronically (.pdf file) through the Department's website under the Forms & Publications link as follows (note that the PennDOT-Certified Drilling Contractor and Drilling Inspector lists will remain accessible as separate documents via the Publication 222 web link):

<http://www.dot.state.pa.us/public/pubsforms/Publications/PUB%20222.pdf>

The content of Publication 222 has been revised and updated throughout, and a list of substantive changes is attached.

Please direct any questions or concerns regarding this matter to Kruz Schrann at 610-205-6703 or at kschrann@pa.gov.

Attachment

3203/4815/KNS/KWP

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Prequalified Drilling Contractors

Summary of Substantive Changes included in Publication 222 August 2015 Edition

The following is a summary of the more substantial changes. This is not a complete listing of all of the changes in the updated publication, but only a summary of those of greater impact and significance. There are many changes in the new publication that are not covered in the list, below.

General:

- 1) A Table of Contents, List of Tables, and List of Figures have been revised.
- 2) Drilling Inspector Guidance Documents (Appendices) have been revised as valuable tools to be used during inspection.
- 3) Rescind Strike-Off Letter 481-14-05, Publication 222, Geotechnical Investigation Manual – 2014 Initial Edition.

Chapter 1:

- 1) Section 1.2, Criteria for Prequalification of Drilling Contractors – The prequalification minimum requirements have been revised including new minimum requirements for Class S indicated in Criteria Notes (4) and (8).
- 2) Drilling Contractor Prequalification Request Form – Form has been revised.
- 3) Drilling Contractor Prequalification Request Form – Submission Checklist has been added.
- 4) Section 1.3, List of Prequalified Drilling Contractors – Prequalified Drillers are required to respond within thirty days from the verification email date.

Chapter 3:

- 1) Section 3.1, Minimum Requirements for Drilling Inspection Exam – Inspection minimum qualifications for drilling inspectors has been clarified, including acceptable footage in surrounding states for Non-Department Boring Inspection.
- 2) Section 3.2, Certification Policies and Procedures – Application submission requirements have been revised.
- 3) Section 3.3.2 – Rock and Soil Sample Identification Examination (Part-3) was revised to include two additional rock samples.
- 4) Section 3.3.3 – A small piece of plate glass is now a required material for drill inspection. The Department recommends plate glass that is 1/4” thick.
- 5) Section 3.3.8 – Certified Drilling Inspectors are required to respond within thirty days from the verification email date.
- 6) Section 3.6.6 – Direction has been provided to access the PennDOT gINT Webpage. An electronic version of the Inspector’s Field Log is now available for use in gINT.
- 7) Section 3.8, Packaging and Labeling of Samples – Figure 19 and 20 have been revised.

Chapter 4:

- 1) Section 4.4(a) – Clarification is provided for pre-bid meeting minute questions and answers, including time restrictions.

- 2) Section 4.4(g) – DGE’s are required to send a completed copy of the “Form of Proposal” to the CGE.

Chapter 5/Subchapter 5E:

Section 100:

- 1) Section 103.02, Contract Time Adjustment – Section has been rewritten.
- 2) Section 103.04, Liquidated Damages – Section has been rewritten.
- 3) Section 104.03, Work Plan Schedule – Revised to state the contractor must notify the PGM and Inspector if not working on a planned day.

Section 200:

- 1) Section 212, Standby for Borings – The Description was revised.
- 2) Section 215, Packaging, Protecting, and Shipping Samples – Figure 30 was acclimated to a word document and revised.

Appendices:

- 1) Appendix H, Photos of Commonly Encountered Rock Types in Pennsylvania – Appendix was revised to provide clarification between Quartzite and Sandstone.
- 2) Appendix K, Field Sheet Summaries of Soil and Rock Descriptors – Appendix K was originally Appendix J but was revised. It provides clarification for inspectors according to the soil and rock description sequence.
- 3) Appendix J, Delineation Maps for Acceptable Non-Departmental Boring Inspection – Appendix was included to provide clarification on acceptable footage in surrounding states for Non-Department boring inspection.