OHIO DEPARTMENT OF TRANSPORTATION

Geotechnical Consultant Workshop

May 13, 2009

ODOT Office of Geotechnical Engineering
PERSONNEL CHANGES

STRUCTURAL ENGINEERING

• Foundations Engineer – Bashar Altarawneh

CONSTRUCTION ADMINISTRATION

• Structures (Superstructure) – Jim Welter

DISTRICTS

• District 3 Geotechnical Engineer – John Adamski
• District 7 Geotechnical Engineer – Dan Grilliot
• District 10 Geotechnical Engineer – Andy Moreland
• District 12 Geotechnical Engineer – Jason Wise
SPECIFICATIONS FOR GEOTECHNICAL EXPLORATIONS (REVISIONS)

JULY 2008

- Section 300: Clarified boring location, spacing, depth, and sampling interval. Borings given boring type identifications (Type A, B, C, etc.)
  - Section 500: Clarified terms “open standpipe piezometer” and “monitoring well”
October 2008

- Appendix B: Added table summarizing boring types from Section 300
- Proposal/Invoice Form: Changed Overhead Percentage for calculation of net fee to 172.03%
- Corrected references, web links, grammatical errors
SPECIFICATIONS FOR GEOTECHNICAL EXPLORATIONS (REVISIONS)

JANUARY 2009

• Appendix D: Added Sample Plan Sheets for Geohazard Exploration
• Corrected Soil Profile Sample Plan Sheets
MANUAL FOR ABANDONED UNDERGROUND MINE INVENTORY AND RISK ASSESSMENT (AUMIRA)

FIRST REVISIONS OF ANY KIND SINCE 1998

• New Title: Manual for Underground Void Inventory and Risk Assessment (UVIRA)
• Includes tunnels and other man-made voids
• Excludes utilities and storm sewers
• Revision in progress, complete by September 2009
GEOTECHNICAL BULLETINS (REVISIONS)

GB1: PLAN SUBGRADES
   • Adding granular replacement with geogrid for N < 5 (revision pending)

GB2: SPECIAL BENCHING AND SIDEHILL EMBANKMENT FILLS
   • Added method to repair shallow embankment failures without disturbing the shoulder (rev. 11/04/08)

GB4: GUIDANCE FOR THE USE OF GEOTECHNICAL INSTRUMENTATION
   • Complements SGE Section 500 (issued 05/30/08)
GEOHAZARD INVENTORIES

ABANDONED UNDERGROUND MINES (AUMIRA)

• Inventory complete (1925 sites). Complete report by September 2009.

ROCKFALL

• Inventory 50% complete (21 counties complete totaling more than 3100 sites). 3 consultant teams and 2 part-time ODOT teams. Complete by July 2010.

LANDSLIDES

• 11 counties complete. 5 counties partially complete. Started inventory May 2008. 4 consultant and 2 part-time ODOT teams. Complete by July 2012.
GEOTECHNICAL DOCUMENT MANAGEMENT SYSTEM

• OGE DOCUMENT ARCHIVE SCANNING COMPLETE

• OSE DOCUMENT ASSESSMENT COMPLETED

• OSE DOCUMENT SCANNING BEGAN JANUARY 2009

• ACCESS TO INTERNAL USERS (OGE) BEGAN 2007

• ACCESS TO DGE’S GIVEN JANUARY 2008

• ACCESS TO EXTERNAL USERS PENDING

ODOT Office of Geotechnical Engineering
GEOTECHNICAL RESEARCH

EMBANKMENT SHEAR STRENGTHS  (Complete 09/01/09)
  • T. Masada, Ohio University

ROCK SLOPE DESIGN (Complete 02/15/10)
  • A. Shakoor, Kent State University

EVALUATION OF CPT (Complete 06/30/10)
  • P. Fox, Ohio State University

LANDSLIDE STABILIZATION USING DRILLED SHAFTS
  (Complete 01/31/10)
  • R. Liang, University of Akron

BIOENGINEERING, PHASE 2 (Begin 07/01/10, Complete 06/30/12)
  • P. Fox/T.H. Wu, Ohio State University
STATE PLANNING AND RESEARCH FUNDING - FY2010

GEOTECHNICAL DATA MANAGEMENT SYSTEM

ROCKFALL STATEWIDE INVENTORY

LABORATORY INFORMATION MANAGEMENT SYSTEM

GEOHAZARD MANAGEMENT SYSTEM

LANDSLIDE STATEWIDE INVENTORY