

GPTQ Materials Subcommittee Meeting Minutes, 4/14/16

In attendance:

Glen Foster, GDOT

Ian Rish, GDOT

Adebola Adelakun, GDOT

Thomas Scruggs, Willmer

Rich Mockridge, Terracon

Tom Hruby, Nova

Thomas Howell, AMEC

1. The first training session for LRFD BFI design was presented to a working group as part of a pilot class on March 1, 2016 and was well received. The new LRFD BFI template, special provisions, selected AASHTO specs and general guidelines were distributed and discussed. Twelve consultants from six firms attended this working session and approximately six GDOT personnel also attended. There were discussions and feedback provided during and after the class, and additional feedback will be solicited from those who attended before GDOT schedules additional training sessions. (Tom S. to handle.) Once any revisions have been made to the presentations, invitations to future classes will be sent to all other geotechnical firms.
2. There was discussion on the suitability of using PDA (Pile Driving Analyzer) for driving H-piles to hard rock. AASHTO specifies that 2% of the piles (with a minimum of 2 piles) on a bridge be tested, so this is what GDOT will follow. There was additional discussion about the maximum allowable structural resistances of piles. GDOT limits the driving resistance to $0.5F_y$ when driving in hard rock to prevent pile tip damage, but if piles will tip in dense soil or PWR, $0.9F_y$ may be used. GDOT Geotechnical does not allow any overdesign; however, design-build projects may allow higher loads than what the template specifies.
3. Proposed UST and hazardous waste drilling guidelines for review and inclusion in Policy 5525-1 were distributed and discussed, and it was agreed that review comments would be provided before the next meeting. Review comments on the role of consultants within Policy 5525-1 were distributed and discussed, and additional comments may be provided in future by GDOT.
4. Several review comments on figures and appendices in the Pavement Design Manual were distributed and discussed. Other committee members are reminded to provide comments and suggestions on the manual.
5. Ian reported that the OMAT template has been placed within the overall GDOT cost template. Ian will distribute to consultants.

6. Sample performance-based specifications (PBS), web links, and other PBS information were distributed and discussed. It was noted that some states had conducted considerable research on the development and application of PBS. GDOT noted that FHWA promotes PBS, especially for the most commonly used materials. PBS would remove risks from GDOT and may require warranties, although contractors may be resistant to providing long-term warranties. PBS for asphalt and concrete are first priorities. Input may be needed from other OMAT offices (Concrete, Bituminous, etc.). All committee members were asked to research PBS from other states, FHWA, other countries, etc., send to committee members and bring to the next meeting for discussion.

Next meeting scheduled for Thursday, July 21, 2016 at 10:00 am.