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## Commonwealth of Massachusetts Division of Professional Licensure Office of Public Safety and Inspections 1000 Washington Street • Boston • Massachusetts • 02118

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> LAYLA R. D'EMILIA COMMISSIONER, DIVISION OF PROFESSIONAL LICENSURE

#### **BOARD OF BUILDING REGULATIONS AND STANDARDS**

Geotechnical Advisory Committee (GAC) Meeting Minutes May 12, 2021 The Division of Professional Licensure Office 1000 Washington Street - Boston, MA 02118

## This was a virtual Microsoft Teams meeting.

## Roll Call, by GAC Chair:

Chris Erikson, Chair Scott DiFiore John Roma Michael Oakland Damian Siebert

🛛 present	absent
present	absent
present	absent
present	🛛 absent
$\boxtimes$ present	absent

Martin Rodick
Jake McManus
James Christensen
William Solberg
Rob Anderson

present	absent
present	🛛 absent
present	absent
present	absent
present	absent

#### General notes on format of these minutes

- These minutes represent general points discussed during the meeting. The minutes are **not** intended to be a verbatim account of discussions.
- Topics as numbered may\may not be in the same order as they appear on the meeting agenda.
- The meeting agenda is listed as **EXHIBIT A**; others are listed sequentially as addresses during the meeting.

 Review minutes for the GAC April 14, 2021 meeting (EXHIBIT B). On a MOTION by Damian Siebert, seconded by Scott DiFiore, it was unanimously agreed, by Roll Call Vote, to approve the minutes with the following revisions to page 1; add the word NOT to the 2<sup>nd</sup> paragraph under Item 1 (*excerpted below*).

James Christensen clarifies that he did **NOT** say that updating blow count figures would *likely cause fairly significant increases in project costs* as indicated on page 2 of the minutes (*excerpted below*). There may be some cost increase, but should not be labeled as significant.

# 2. Discuss proposed amendments and new content of 2021 IBC, Chapter 18, for inclusion in the Tenth Edition of the Massachusetts Building Code (780 CMR).

Rob Anderson provided an update about the schedule, goals and objectives for the tenth edition code indicating that it is still unknown whether or not it will be a *blended code* (*sold as a unique Massachusetts code with amendments incorporated in the 2021 I-Code*) or an *amended code* (*where the reader purchases the 2021 I-Code and has access to an amendment package issued by the state – like the ninth edition code*). Either way, Rob explained, it does not affect current efforts of the committee. If it is determined that the tenth edition

will be *amended*, Rob will simply need to excerpt approved changes from Chapter 18 to make part of an amendment package, like the ninth edition.

In terms of schedule, the *Energy, Structural, Existing Buildings,* and *Fire Protection Advisory Committees* as well as varied Office of Public Safety & Inspections (OPSI) staff are reviewing other portions of the code to determine whether or not revision is warranted. Rob indicated that he is reviewing 23 other chapters, along with Chapter 18. Staff has begun presenting possible changes to BBRS members and will continue to do so for several months. Ideally, Board members had hoped that all review would be completed by May. However, it is recognized that it is a large effort that may continue a while longer. Nonetheless, GAC members should target a date for concluding their review of geotechnical requirements.

Chairman Erikson requested members to complete the Chapter 18 review process by June and target the July BBRS meeting for presentation to Board members. Chairman Erikson indicated that he would be available to make the presentation. Rob indicated that it has been challenging for BBRS members to review possible code content\change during the course of a regular meeting, typically held on the 2<sup>nd</sup> Tuesday of each month beginning @ 10:00 a.m., due to other agenda demands. Board members are considering other, additional meeting dates to complete code content presentations. Consequently, Rob identified that the GAC presentation may\may not be included on the July regular business agenda.

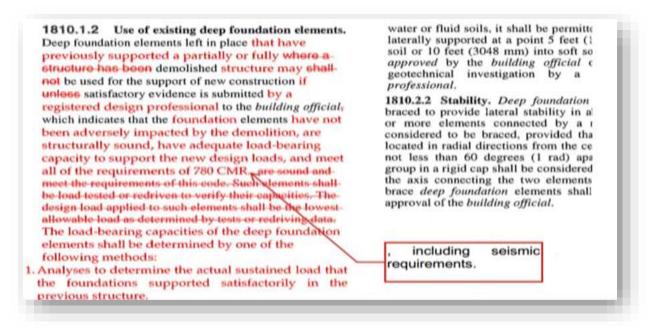
3. **Continued Report on Assignment Number 2 from 2/10/2021 Meeting & Follow-up Meeting(s).** As indicated during the March meeting, *"Following lengthy discussion* (relating to liquefaction susceptibility figures), James suggested that the further study of the matter is warranted and suggested convening an interim (subgroup) meeting prior to the next regularly scheduled meeting on April 14<sup>th</sup> dedicated to the topic".

James Christensen provided a memorandum dated May 12, 2021, titled *Liquefaction Screening Figure* 1806.4 *Massachusetts State Building Code, 10th Ed.* (EXHIBIT D). The purpose of the memorandum is to document the input parameters and assumptions used in the calculation to develop revised Liquefaction Susceptibility Screening Plot for the Massachusetts State Building Code, 10th Edition (Figure 1806.4). James indicated that, although progress has been made, a bit more study is necessary. James suggested inviting subject matter experts to another meeting of the subgroup and soliciting input from BBRS Structural Advisory Committee chair regarding concepts described in the memo.

Martin Rodick questions whether or not open meeting laws allowed the participation of others. Rob Anderson explained that invitees are fine, but committee members need to be cognizant that the group cannot comprise a majority of GAC members. Reports of the group, as James has done today, satisfies open meeting requirements since discussions are detailed in these meeting minutes.

Following discussion, Chairman Erikson thanked James in particular, and all involved, for their efforts and detailed analysis of the matter. Discussions will continue next meeting.

- 4. Section Review: 1810 Deep Foundations.
  - **1810.1.2 Use of existing deep foundation elements**. John Roma asked if a seismic reference could be included in the paragraph for clarity (*as identified in the screen shot below*).



• Section 1810.3.3.1 – Allowable axial loads. Damian Siebert indicated that some consider the requirement of piles "... *tested to a minimum factor of safety of* 2.5..." is a bit conservative and leads to cost increases.

John Roma suggested that committee members invite stakeholders into a meeting to discuss possibly reducing the factor of safety requirement.

Following a lengthy discussion, committee members decided it would be difficult to address this issue in any great depth considering the number of sections left to review. However, members indicated that, if time allowed, they may reconsider. In order to prepare for a future discussion, John and Martin will reach out to GZA and other interested parties to solicit opinions.

5. Discuss: Matters not reasonably anticipated 2 business days in advance of meeting. None.

#### 6. Approve: Adjourning the meeting.

On a **MOTION** by Chris Erikson seconded by Martin Rodick, **by Roll Call Vote**, it was unanimously agreed to adjourn the meeting @ approximately 12:00 pm.

#### Exhibits.

- A. Meeting Agenda
- B. April 14, 2021 GAC Draft Meeting Minutes.
- C. International Building Code (IBC), Chapter 18 January Draft.
- D. Liquefaction Screening Figure 1806.4 Massachusetts State Building Code, 10th Ed memo and attachment.