

ACEC/Maine DOT Bridge Design Subcommittee

MEETING MINUTES

2 June 2011

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| Attendees: | | Location: MDOT Conference Rm. #317A/B |
| Wayne Frankhauser | MaineDOT | |
| Mike Wight | MaineDOT | |
| Laura Krusinski | MaineDOT | |
| Naomi Petley | MaineDOT | |
| Chris Taylor | TY Lin International | |
| Jason Gallant | CMA Engineers | |
| Wayne Chadbourne | Haley & Aldrich | Notes Taken By: Wayne Chadbourne |

This is the first quarter ACEC/Maine Bridge Design Subcommittee meeting this year.

➤ **Follow up from February meeting (various)**

- The September 2011 (Q3, 2011) meeting is the last scheduled meeting for Chris Taylor as he has completing his third year on the subcommittee and per the schedule the group established in the February meeting (rotation approved by JoAnn Fryer, ACEC). Chris will reach out to Craig Weaver (SEA/Kleinfelder) to confirm his interest in joining the subcommittee in December 2011/January 2012. The plan is for each member to serve a 3-year term with a new member starting every nine months. Wayne C. to check with JoAnn regarding Steve Hodgton's interest in joining the group after Craig. The current schedule as approved by ACEC is:

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| Chris Taylor: | start Q1, 2009 with last meeting Q3, 2011 |
| Wayne Chadbourne: | start Q2, 2009 with last meeting Q2, 2012 |
| Steve Percassi: | start Q3, 2009 with last meeting Q1, 2013 |
| Jason Gallant: | start Q2, 2010 with last meeting Q4, 2013 |
| Craig Weaver: | start Q4, 2011 with last meeting Q3, 2014 |
| Steve Hodgton (VHB; TBD): | start Q3, 2012 with last meeting Q2, 2015 |
| Keith Donington (PB; TBD): | start Q2, 2013 with last meeting Q1, 2016 |

- Chair of group (after Chris Taylor steps down) will be determined by consultant members prior to the Q4, 2011 meeting.
- Wayne F. requested that a list of member ACEC of Maine firms be provided to him so that he can reach out to consultants regarding upcoming, 2-day NHI Steel LRFD Design Course to be offered by the Department in August 2011. Wayne C. will reach out to JoAnn Fryer (ACEC) and get list to Wayne F.

➤ **Information Dissemination from MaineDOT (various)**

- Naomi reported that the CGA process is complete with the exception of the geotechnical consultants; the contracts for those consultants are being sent out in the next couple of weeks. Seventeen bridge designers submitted an application for a CGA, eleven were selected. Six geotechnical firms were short listed and interviewed, and all six firms will receive CGAs. Four geophysical consultants firms will receive a CGA. The Department is shooting to have all GCAs in place by the end of June. CGA process for environmental and planning services will be staggered and will likely be starting in 2012. The Department now allows a simplified procurement process for services of prequalified consultants for annual or per PIN project values up to \$150,000.
- Wayne F. reported that the 2012/2013 work plan is on track. Some projects in the plan have already been kicked off internally. Some projects have already been identified as being consultant assignments. Timing of CGA process may slow notification of these projects down a little. Wayne anticipates that some of the projects may start up in mid/late summer.
- No update regarding the final review of the Chapter 5 (Substructures) revision to the Bridge Design Guide; still under review by the Chief Engineer.
- Mike Wight shared Designer's Meeting Minutes from 9 March 2011, 23 March 2011 and 18 May 2011. Meeting notes and supporting documents are attached.
- Laura stated that Maine will be hosting the Northeast Geotechnical Conference in September 2011. Scour design issues and countermeasures will be one of the topics covered. A one-day training session will be given by the FHWA on GRS Bridge Systems and will be made available to a small list of external consultants.

➤ **Recap of Previous Topics**

- **Technical Training** – The Bridge Program will conduct a 2-day training seminar on steel design in August. The training is planned for 10 to 15 MaineDOT staff and 15 to 25 outside consultants. A total of 20 to 40 attendees are needed to put on the training. Chris Taylor will work with JoAnn Fryer (ACEC) to circulate an email notification to ACEC member consultant firms regarding the training.

- **New Steel H-Pile Sizes Available** – There are new standard 16” and 18” H-pile sizes available and some regional suppliers have these new larger section piles in stock now. Laura has some concern that the pile driving hammers owned by local contractors may not be large enough to effectively install these larger piles.
- **Design-Build RFP Technical Requirements** – Additional, follow-up discussion not needed.
- **BDG Update, Consultant Assistance** – Wayne F. stated that the Department may decide to hire an external consultant to either write or assist the Department in writing the rest of the update to the BDG. Wayne would like to potentially utilize the subcommittee members to review the BDG revisions once drafted and provide comments on behalf of the consultant community. Laura may be taking the lead on the rewrite to Chapter 3 (seismic).

➤ **New Discussion Topics**

- Accelerated Bridge Construction – Chris stated that UtahDOT recently presented a brownbag to TYLin. Chris provided a score sheet and flow diagram to aid in decisions making process regarding use of accelerated bridge construction techniques (attached).
ABC Website: <http://www.udot.utah.gov/main/f?p=100:pg:0:::T,V:1991>

➤ **Future meeting discussion topics**

- BDG Issues - Wayne F. requested that the consultant members brainstorm and identify any areas of concern/major issues with the current BDG (excluding Chapter 5 as the rewrite is already substantially complete). Wayne would like the group to vet/discuss these issues at the next meeting so that they can be taken into consideration during the BDG rewrite. Ice Loading - Technical approach to application of ice load is likely to be clarified with the pending revisions to Chapter 5 of the BDG.
- Rebar Info - Review of cost, availability and design life information for various types of rebar (X3, X8 black bar, enduramet 28 stainless). What have other state DOT used; what are the costs on the bid tabs.
- Weathering Steel - Use of weathering steel. FHWA guidelines are vague. Do other state DOTs have practical experience on project they have used weathering steel on. Jason cited that the recent I-93 bridge project in Salem/Manchester area used weathering steel exclusively. Conway bypass project in NH is another project that used weathering steel for bridges. Bob Landry (NH DOT) may have a good experience base regarding this topic.

- Ice Loading - Technical approach to application of ice load is likely to be clarified with the pending revisions to Chapter 5 of the BDG.
- Research on 100-year design life – Group discussed and agreed that this may be a topic for future discussion. Design life requirements should be clearly stated in RFP for design build projects so bidders can understand design life impact on bids.
- Standardized deck overhang design
- Specification requirements for post-tensioning of precast box culverts
- LRFD bridge rail design and research on standardized curb reinforcing

➤ **Next Meeting Date**

- 15 September, 2011 at 10 AM, Room 317A/B.

Attachments:

Designer Meeting Minutes from March 2011 and May 2011

I have attempted to summarize discussions held during this meeting as accurately as possible. If there are any items discussed herein that are misrepresented in any way, please contact me within ten working days. In the absence of any corrections or clarifications, it will be understood that these minutes accurately summarize the discussions at the meeting.

Respectfully Submitted,

Chris Taylor