

**Location:**  
NHDOT- Large Highway Design Conference Room

**Time:**  
10:00 AM to 11:30 AM

**Purpose of Meeting:** Fourth Quarter Meeting 2018

**Attendees:**

Bob Landry, NHDOT  
Angela Hubbard, NHDOT (Co-Chair)  
Joe Adams, NHDOT  
John Poisson, NHDOT  
David Scott, NHDOT  
Tony Weatherbee, NHDOT

Tom Kendrick, MJ (Co-Chair)  
Bob Durfee, D&K  
Steve Hodgdon, HTA (Note-Taker)  
John Watters, GPI  
Adam Stockin, WSP  
Tom Levins, GM2

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**1. Department staff changes (promotions, new-hires, retirements, etc.)**

- a. There is an CE-5 position posted for external applications. This was also mentioned in the last SENH newsletter (The Department appreciates that).

**2. Summary of In-House Design Section staff meetings – September and October 2018**

- a. These notes have been posted to the NHDOT-ACEC Bridge Subcommittee page <https://www.nh.gov/dot/org/projectdevelopment/bridgedesign/committees/index.htm>
- b. The Department intends to issue a design memorandum soon on partial-depth deck panels. This will include showing them on all future projects (no option) where they can be used without exceeding their limitations.
  - i. The Department is still discussing issues related to showing deck panel layouts or not and the requirements for reinforcement in the deck above piers in continuous superstructures (avoiding different bar sizes if possible).
- c. The Department is concerned about excessive and premature paint deterioration on steel beams over the interstate. The Department is looking at contributing factors and the anticipated performance of its current coating specifications. They are also reviewing cost information for metalized coating systems.
  - i. The group shared some information on the exposure issues and painting methods employed in the past.
    - 1. Abrasion, chlorides, from gusts/splash of trucks is a factor.
    - 2. Coating over existing coatings diminishes the performance of the coating system and results in premature peeling and debonding.
    - 3. A summary of the paint deterioration issues can be found in the October 2018 In-House Meeting Minutes.
  - ii. The group noted that metalizing is becoming more common and costs are coming down. Both Canam-Bridges and Casco Bay have facilities in-house. Coating structures like trusses that have many faying surfaces is still expensive though.
    - 1. MaineDOT is moving in the direction of using metalizing on its grade separation structures over the interstate.

2. John Watters noted that MassDOT has guidance on metalizing considering the exposure environment and mil thicknesses in their Bridge Manual (Part 1 – Subsection 3.6.1.2)
3. The Department has specified metalizing on its first project recently in Alstead. They are going to compare costs and benefits for this project. They may also look at other potential projects where it may be a good application.

### **3. NHDOT Information for Consultants**

- a. NHDOT Pre-Approved Proprietary Wall Systems list has been updated (revised 6/8/18). It includes: wall type, company name, system description, qualified applications, and limitations/concerns (including maximum wall heights).
  - i. The update includes a clarification to the height restriction for the walls.
  - ii. Some other types of retaining walls are still being evaluated by Materials and Research (Geotechnical Section).
  - iii. The pre-approved proprietary wall systems can be found on the NHDOT website, Document Library page, Proprietary Wall Systems:  
<https://www.nh.gov/dot/org/projectdevelopment/bridgedesign/documents.htm>
- b. The Department is continuing to progress the NHDOT Bridge Design Manual. Chapter 7 is being finished. The remaining chapters are 8 (Precast, ABC, etc.) and 9 (Misc., Timber)

### **4. Technical and business-related topics**

- a. The Department has some experienced Bluebeam users in the Engineering/Audit section. They are looking into getting some cross training from them.
  - i. The cost of Bluebeam is spiking according to some information shared by ACEC.
  - ii. The Department is interested in Bluebeam or something like it to share files. The file sizes that the Department is getting are becoming problematic.
  - iii. There will be discussion on Bluebeam at Technology Transfer Conference this April
  - iv. Jeff Collins of Hoyle, Tanner may be able to do a lunch and learn on applications for transportation projects too.
- b. Diamond grinding issues with some projects. Large areas not treated/ground. Discussion on how much is specification and how much is construction quality control.
  - i. Some changes to the specifications are being considered. Perhaps requiring larger equipment.
- c. Corrosion inhibitor. Is it worth the cost to put in curbs, sidewalks, medians?
  - i. Some discussion on general cost premium – around \$50/CY depending on dosage is what some recalled.
  - ii. Reviewing pros and cons, the Department believes it is best to have it limited to precast components subject to salt splash and prestressed-precast members since the product is not effective once the concrete cracks, which occurs in the cast-in-place concrete.

- d. Considering additional applications of macro and/or micro fibers in concrete (particularly curbs and sidewalks).
    - i. Caltrans completed a 14-year study and evaluation and is looking to add macro and micro fibers to future bridge decks.
    - ii. NHDOT is still considering the pros and cons of this – it might be a good option for deck end headers with modular expansion joints. There is not much room for reinforcement and the fibers will help minimize cracking in the concrete headers. It may also help minimize the transverse cracking that occurs in the cast-in-place curbs.
    - iii. Bob Landry asked the consultants if they knew if VTrans used their rapid set concrete mix for ABC zipper pours in their expansion joint headers as well. **Joe Adams will contact Jim Lacroix of VTrans about this.**
  - e. The Department is looking for any sample manufacturer calculations for a luminaire and mast pole so that it can complete its efforts to review and analyze standard foundations.
    - i. The consultants noted that they would review some of their projects and records to see if they can provide Angela with anything helpful.
  - f. The Department is looking for a specification on method to remove deck from concrete beams. Concern for beam damage during demolition.
    - i. Some sample AASHTO and other state specs provided to Angela.
    - ii. The group noted that this may be specific to each bridge and beam configuration where the means and methods may need review by the Department. Most specs require the Contractor to submit plans or working drawings and describe the tools and methods to be used and that this must be approved by the Owner.
- 5. Potential NHDOT and Consultant bridge training opportunities**
- a. Half day PCI workshop this spring that will likely have an invite to consultants
- 6. Bridge Bureau workload and anticipated consultant support needs**
- a. 4 Statewide on-calls posted for Bridge Design Services. The Department is looking at a focus on R&R and Preservation projects.
  - b. 2 Statewide on-calls for paint/coating inspection posted
  - c. Bob Landry noted that it still takes about 9 months to get onboard. Keep reminding the Department on outstanding issues and things needed to progress projects (this is not “bugging” them).
  - d. If the website is not updated, please send a reminder and request to the Department so that they can remind the website master about this.
  - e. A solicitation will be posted soon for Manchester-Hooksett NB work (similar to what was posted this year for SB).
  - f. Bob Landry is meeting with the Front office to review how projects are ranked and prioritized for R&R and Preservation. This can be seen now on the website.
    - i. Most projects are federally funded. The schedule in the Ten-Year Plan (TYP) should be met about 90% of the time. Some of those projects will be earlier than that.

- ii. If projects require Right of Way, that takes about 5 to 7 years. By starting now, projects are ready at about 2025.
- iii. The STIP is updated more often than the TYP
- iv. Goal is to have about \$160M on the shelf. Currently, there are no R&R projects on the shelf.
- v. The 2019 program is relatively big. Need on-shelf R&R and Preservation projects.

**7. Consultant Co-Chair rotation – Steve Hodgdon will be taking over for Tom as the co-chair.**

8. Subcommittee membership rotation

- a. Bob Landry to discuss with Alex Koutroubas (ACEC-NH) about opening the subcommittee to new consultants to fill two openings at the end of 2019.
- b. Angela will likely stay on the committee as a de-facto member rather than rotate off as shown in the rotation schedule below.

Tom Kendrick, Bob Durfee, Bob Landry, Angela Hubbard	Sept. 2017 to Sept. 2019
Steve Hodgdon, John Watters, Joe Adams, John Poisson	Sept. 2017 to Sept. 2020
Adam Stockin, Tom Levins, David Scott, Tony Weatherbee	Sept. 2017 to Sept. 2021

9. Upcoming meetings are scheduled on Friday's from 10:00 to 11:30 AM on the following dates: March 8, 2019, June 14, 2019, September 13, 2019, December 13, 2019.

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 by January 4, 2019. In the absence of any corrections or clarifications, it will be understood that these minutes accurately summarize the discussions at the meeting.

Respectfully Submitted,



Steve Hodgdon