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| **Location** | | **Time**  1:00 PM to 3:00 PM | |
| Virtual | |
| **Purpose of Meeting** | | |  | | |  | |
| 4th Quarter Meeting - 2020 | | | | | |
| **Invitees** |  | | | |  | |
| ⌧ Jeff Folsom, MaineDOT  ⌧ Wayne Frankhauser, MaineDOT  🞎 Leanne Timberlake, MaineDOT  ⌧ Garrett Gustafson, MaineDOT  ⌧ Laura Krusinski, MaineDOT  🞎 Kathy Parlin, MaineDOT  🞎 Ben Foster, MaineDOT  🞎 Richard Myers | ⌧ Bob Blunt, VHB  🞎 Jason Gallant, HDR  ⌧ Owen Krauss, HTA  ⌧ Josh Olund, HNTB  🞎 Chris Taylor, T.Y. Lin | | | |
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1. Introductions
   1. Bob Blunt has joined the committee
   2. Jason Gallant is no longer with HDR. HDR will submit replacement recommendation to the committee.
2. Meeting Minutes Acceptance
   1. Minutes have been accepted through June, one outstanding from September
3. Information Dissemination by MaineDOT – Jeff Folsom
   1. Contracting /workload -
      * 2020 work plan update
4. Just about finalized and will be published shortly. This year bridge allocation is $130M (increase for a typical ~ $105M per year typical).
5. Supplemental funding needs 1st priority– $25.5M (two projects account for half of needs – Ticonic bridge and I295 Joints)
6. Add const. to PE only ready to go into const – 12 projects, accounted for $37.7 M
7. $65.5M to new projects – 60 new projects. Most funded for construction in 2023. About 12 are PE only.
8. Existing work – most have been assigned except for a few preservation jobs.
9. Garrett –nothing is unassigned with Team South
10. 2021 advertising is set – 41 projects for $179M. Includes some large grant projects. Yearly dist. Is heavy in third quarter – 2 grant bundles and an infra grant in mix for next year
11. 2022 project #’s at 63 – $164M
12. 2023 – 60 projects $138M
    * + BUILD grants
        - Will continue going after grants in the future, but nothing new planned as of now.
    1. MaineDOT Staffing Update:
       * New Positions: Appraiser
       * Retirements:
         + 1. Appraiser – L. Booker,
           2. Senior Project Manager - Leanne Timberlake in Jan/Feb 2021 timeframe.
    2. Return to work plan/COVID Info – Late spring/summer likely will be back but no firm schedule set.
    3. Construction Cost Estimating – AASHTO estimation program is ready to take another step forward. Database had some problems and contracts had to switch gears from project to construction module. Still on back burner but once project vs. construction is resolved they can start on estimation. It is all web based and they can issue credentials to consultants. AASHTOware product.
       * Josh O. brought up talks with Joe Stillwell – tube steel cost has gone up so a 40% bump is recommended for bridge rail, per ARC Enterprise. This 40% may be material cost only, not fabrication or installation. The cost spike is anticipated wo wane over the next few months.
    4. Standards Update (BDG, PDR/PIC, CADD, Notes)

Nothing to share. Submissions, project development, checklists etc. is goal to roll out first. Plan to have something to share in 2021

* 1. Public Outreach / PIMA
     + Minor scope projects have been receiving good comments. In general, they have been successful. For consultants there are some documents on how to prepare video presentation, process overview. Jeff will provide these documents for reference. The “New way” – no travel, similar presentation, questions come later and typically more questions.

1. Summary of Designer Meetings - Garrett Gustafson

2 meetings.

Nov 4 – TrueTech Bridge - clear S.I.P. forms.

No maintenance staff attended. Pretty much a plastic form. Has a metal frame. Flat acrylic. No installations near Maine to allow a field visit. Unsure of what it looks like in 15 years – will it cloud. Better than something opaque, but not a formed deck. Potential to be used somewhere.

Nov. 18 – Structural Technologies - overview of breadth of their services. Rehab and structural evaluation topics and heavy lifting. Bangor-Brewer 395 project that will require jacking was discussed.

DOT gets approached randomly for these. If they come from contractors, they look closer because it has more potential to be an economical solution.

1. Discussion Topics
   1. Geotechnical (Laura K.)
      * AID Grant for Non-Technical Benefits of CPT, Borehole ATV/OTV, and Seismic Refraction
      * $1M aid grant for Brewer-Eddington project. Showcase Geotech technologies promoted by EDC5. These tools are called proven but underutilized. Phase 2 borings being done now. A geophysical firm is on the ground doing ATV/OTV for mapping out the strikes and depths and joint features in bedrock mass. Seismic refraction is also being done. Third tech is SPT, cone-tech from NJ is doing this. For soft compressible soils. Phase 2 will be done in a few weeks. Final design is in process right now. Data can be incorporated in the design for more reliable design and then during construction phase have an increased confidence in subsurface data will hopefully help schedule and pricing. Hopeful a lesson learned will follow.
   2. Micropiles for integral abutments
      * Aaron Gallant from UMaine is leading this. Bill Davids is becoming involved. Intent was to instrument Oceanville bridge in Stonington. That PSE date has slid into 2022 and wont work with research schedule. Want micropiles instrumented. Going from a primarily Geotech focus to a structural focus on the threaded coupling investigation at the top of piles. May switch to lab testing for the threaded joints/couplings. Rupture, slipping and jump-out. Joints are the weak links in the system. Will meet to discuss reallocating the funds for change in approach.
   3. Bare Concrete Decks: Class A vs Class LP
      * Really looking at what other states are doing. A draft chart on what other states are doing has been and their QA/QC approach has been started.
      * Jeff Folsom- low permeability isn’t what we should be after, with introduction of SS and GFRP, goal should be to go for less cracking.
      * Bob Blunt – PennDOT seems to be a leader in bare decks and perhaps there is more information we can get from their research.
      * Jeff Folsom - Washington is a leader as well
   4. Guardrail Transition Type – Type 1 vs Type 1a?
      * Change in GR height, the asymmetric 1A transition. Is this used across the board? Is type 1 still being used.
        + Jeff Folsom – Type 1A is only to hook on to concrete barrier.
        + Steel rail transition can use Type 1.
   5. Integral abutments –
      * Simplified design process. Where and when we can push the limits. Josh O. will report the VT project soon.
      * Milo project that bid recently does not have any active plans for monitoring. GZA and Laura Krusinski were considering load cells between inclusion and abutment and inclusion and backfill for design recommendation when including the inclusion. The project already advertised so Laura will look for a new project where this could be done – long span integral with high skew. Too late for Milo? On previous projects the instrumentation has been part of the bid book for contractor awareness.
        + Bob Blunt – Stillwater project, with University nearby is a potential. Socketed H-piles, near university. Stresses in piles themselves.
        + Jeff Folsom – could potentially add it on to a project, such as Milo, with direct consultation with contractor. Laura will look into effort for it to be installed.
   6. Bluebeam Update
      * Jeff Folsom – most have the licenses now. Just getting into it now.
      * Any lessons learned consultants could share would be good.
      * The Department still needs to figure out how they want to use it.
   7. Complex Projects – Contractor Involvement
      * JO – NY is design-build over $40M
      * VT is similar to ME. Have not tried contractor involvement. VTrans has, on occasion, requested consultants subcontract with a contractor to provide comments in design phase.
   8. Other - NA
2. Future Discussion Topics
   1. Potential future discussion topics
      * GFRP Design – Consistent assumptions (Laps, Material Properties, Empirical Design, etc)
        + Still some different design approaches, maybe we can discuss preferred – DOT agreed to add this topic to the next ACEC meeting
      * Common Maintenance/Construction Issues
        + Department can take lead on reaching out to Ben Foster.
      * Bob Blunt – Suggested adding APJ’s for discussion - can we get direction on installation, contractor. Jeff requested ACEC send in a list of questions we are seeking to discuss
   2. Where can the Consultants better help discussions
      * Jeff Folsom – addressing climate change, sea level rise will be looked at again with their design policies. How are other states addressing this?
      * WF – Chief Engineer Joyce Taylor is involved in the panel and has asked to review policy to make sure we are on same page as what climate council has been discussing.
   3. Common Questions/Comments for Consultants DOT frequently surfacing that this committee might be able to address.
   4. Training Areas
      * Bridge Inspector Refresher Training
      * Structural Stability - Jeff Folsom, still interest in this course. 1 session in 2021 in Texas, but no web-based offering
      * Web-based Training
3. Subcommittee Rotation for Consultants
   1. Josh Olund, HNTB Q2 2019 thru Q1 2021
   2. ~~Jason Gallant, HDR\* Q1 2020 thru Q4 2021~~
   3. Owen Krauss, HTA Q3 2020 thru Q2 2022
   4. Chris Taylor, TYLin Q3 2020 thru Q2 2022
   5. Bob Blunt, VHB Q4 2020 thru Q3 2022

\* Replacement TBD

1. The Next Meeting is set for March 23rd, 2021 at 1pm.