

Meeting Minutes

GPTQ Bridge Sub-committee Meeting

June 2, 2021 at 10:00 am– 12:00 pm in MS Teams

Committee Members:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Donn Digamon - GDOT (GDOT Co-Chairman) | <input checked="" type="checkbox"/> Arunava (Arun) Saha – WSP USA |
| <input checked="" type="checkbox"/> Greg Grant – RS&H (Co-Chairman) | <input type="checkbox"/> James Aiken – CHA Consulting |
| <input checked="" type="checkbox"/> Joshua Orton – Brasfield & Gorrie | <input checked="" type="checkbox"/> Jennifer Napier, VHB |
| <input checked="" type="checkbox"/> George Manning - Michael Baker | <input type="checkbox"/> Steve Gaston – GDOT |
| <input checked="" type="checkbox"/> Brian Adams - Heath & Lineback (HL) | <input type="checkbox"/> Lyn Clements – GDOT |

Opening

Task Force Updates:

CONSPAN Task Force – Jin Liu, GSP (Lead): Kevin Schwartz, GDOT

- LEAP Update for Georgia Specific Customization Summer 2021

RCPIER Task Force – George Manning, Michael Baker (Lead): Jennifer Tait, GDOT

- LEAP Update for Georgia Specific Customization Summer 2021
 - Update for 8th ed LRFD

ABC Task Force – Tim Dow, GSP (Lead): Dexter Whaley, GDOT: Raj Anand, HL

- Team to complete documents in Mid-July, 2021

Old Business:

Status of Pending Bridge Manual Updates

- Changing from Evozote to Silicaflex.
- PSC Beam Shop Drawings – Substitute debonded strands for draped strands in PSC Beams.
 - Type I & II NO DEBONDING,
 - Information will be added to the manual
 - Consider a standard for beam sheet with second sheet for design info
 - Consider standardizing the end reinforcement for beams
 - Fabricators to start using bluebeam for submittal of shop drawings
 - Potential session topic
- Minimum number of piles in Pile Footings (4 or 5 piles).
 - Construction issue with supporting column rebar cage.

- o LRFD lateral loads increases pile spacing.
- o Possibly place masonry block beneath cage for support.
- o Possibly place a note on the plans addressing support of column reinforcement cage, similar to exterior beam bracing note.

- o **Donn to talk with construction about this issue**

Pending Implementation/Presentation Updates

- Open Bridge Implementation
 - o GDOT approach is to create 3D at end of project and slowly implement into beginning of project.
 - o Most consultants are beginning to implement 3D.
 - o 3D implementation would be beneficial for Environmental group for Public Information meetings for public relations.

- o **Potential pilot project to use the software**

- GDOT Bridge FFPR Waiver Letters.
 - o Donn to set up a presentation for conditions on waiver letter.
 - o Conditions for Waiver Letter:
 - Submit one week before FFPR submittal.
 - Plans submitted to bridge office for one month.
 - First round of BFI comments received.

- o **Donn to check on this**

Items under Discussion/Investigation

- Lighting Conduit Details – Conduits through deck slabs.
 - GDOT Bridge CADD group will add to cell library. No date set for implementation.
 - o **Conduit may have been added already**
 - GDOT considering how to implement with MASH Compliance.
 - o **Miles Kemp (air and noise subcommittee) to discuss with group**
 - o **Jennifer to reach out to him**
- o Zone of intrusion issue (trucks leaning over).
- o Possibly solutions:
 - 6 feet tall barriers.
 - Offset from face of barrier (preferred).
- o **Recommend having open MASH topics in the Bridge Committee.**

- Longitudinal Joints Under Traffic.
 - Donn provided a detail in chat.
 - Desire to provide protection for bicycle or motorcycles over joint.

- Collision Loads for Drilled Shaft Foundations.
 - Transferring load from column to caisson.
 - Brian Adams to investigate.

- Widening for step down culverts.
 - Using light weight fill or foam on top of culverts (D1 in 2007).
 - MSE walls using wire walls for lateral loads and distribution slabs needed for vertical deflections.
 - Consider using an inner wall.

- MASH compliance with sound barriers on MSE walls or bridges.
 - LRFD requirements for the system to resist lateral loads on sound barrier.
 - Bridge approach is to offset sound barrier on bridge.
 - MSE wall approach:
 - Potentially look into sound analysis for the barrier height. Appears to not provide enough reduction.
 - Consider using a taller barrier to mitigate load (FDOT has an 8' tall barrier).
 - Address noise barrier feasibility?

- Understanding of Internal GDOT MathCAD Projects.
 - Should be used only to check designs, not as primary design for consultants.
 - Superstructure MathCAD programs are available:
 - Slab
 - Overhang
 - PSC Beam
 - Bearing Pads
 - Substructure files are forth coming, possibly available Summer 2021.

- Bridge Jacking Guidelines.
 - GDOT has some guidelines but are not robust.
 - Possibly use threaded couplers for anchor bolts for future jacking.
 - GDOT requirements for jacking stiffeners on new steel bridge end diaphragms.
 - AASHTO documents will be available in the next few years.

New Business:

Action Items

Next meeting is August 4th, 2021