HOL-111085 Open Bridge Modeling Notes

Helpful Notes:

* Looks like I will have to model the bridge in Open Bridge. Then design it in Leap concrete. RM bridge is for complex structures.

Things that need verified:

Deck

* ~~Deck Material – Deck Concrete – 4.0 is correct? Same as training exercises.~~
  + ~~Use deck concrete 4.5 ksi, per SCD, stage 2 plans.~~
* ~~Need to find out a way to create a template with varying thickness on edge beams. I currently have it modeled at uniform 18” thickness.~~

Pier Caps/Piles

* ~~Cap material – “Substructure Concrete” is correct? Same as training exercises.~~
* ~~Pier caps in our situation are not termed “integral”, correct?~~
  + ~~Yes, integral~~
* Need to verify all pile lengths, embedment length, encased length.

Abutments

* How to show back wall/check wall… I tried doing each part as separate components and leap bridge didn’t like that.
* All elevations and depths need checked.

Barrier

* None needed, since drainage is over the side?
  + Need to add.. Nothing currently in the libraries for this.

Final Result after attempt 4: Decent model, but I might have to change the bridge type… Leap Bridge is analysizing it as a prestressed beam bridge.

But, you can access LEAP bridge within OpenBridge directly, without importing it from a OBM model. I tried modeling the bridge in there, and could get no further than when we did it with Ray. It can’t analyze the pier caps.