

10:06:39 From Lisa Schaeffler : will these slides be available to download?

10:07:16 From Brenda Codella : Yes, from our website by Friday

10:07:36 From Aldo Villani : <https://www.umasstransportationcenter.org/umtc/Stump-the-Instructor1.asp>

10:08:20 From Lisa Schaeffler : thank you!

10:13:31 From Troy Barry : angular rock locks together, round needs good chinking gradation to prevent this. Angular rock is not allowed by many jurisdictions for AOP design in New England.

10:17:44 From Troy Barry : ACOE Stream Simulation Practices: Construct crossings with a natural bottom substrate within the structure matching the characteristics of the substrate in the natural stream channel and the banks (mobility, slope, stability, confinement, grain and rock size) at the time of construction and over time as the structure has had the opportunity to pass substantial high flow events.

10:18:10 From Nick : NRCS in maine wrote a small paper on small culvert costs <https://www.climatehubs.usda.gov/sites/default/files/EconomicsOfCulvertReplacement.pdf>

10:48:16 From Aldo Villani : Are the culverts in the Mass Stream Crossing Standards now bottomless with natural substrate?

10:49:53 From Gail Ceresia : Please provide info for stream geomorphic presentation

10:50:18 From Deb Duhamel : How long does construction for one of these take, and what are options to mitigate the impacts to the fish/aquatic life during construction?

10:51:08 From Yuehlin Lee : Great presentation. What is the likely timeframe for the changes to the stream crossing standards and any grants or funding?

10:52:54 From Gail Ceresia : Could boulders be a problem with this type of construction?

11:01:08 From Yuehlin Lee : sounds like a good opportunity for a master plan on road network and crossings improvements

11:05:57 From Jake Lehan : Plug here for the NAACC Culvert Assessment training Scott J. mentioned: <https://www.mass.gov/service-details/culvert-survey-training>

11:09:16 From Johanna Stacy : Do you anticipate that the max extent guidelines will address standards for small intermittent (or ephemeral) streams vs larger perennial streams?

11:10:12 From Brian Kelder : Brian Kelder
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11:11:02 From Brian Kelder : for the time being my phone is 617-334-5437

11:11:37 From Aldo Villani : Great presentations and discussion. Thank you very much Scott Jackson and Scott Civjan

11:12:02 From Noah Slovin : Thank you!