

Bridge Design M-102 over Plum Creek, Detroit/Southfield
QA 1

1. We assume that epoxy coated steel reinforcement will be used to connect the barrier to the deck and that CFRP will be used as longitudinal reinforcement in the barrier. Will this reinforcement scenario need to be subjected to a full scale impact test (i.e. crash test)?

FHWA did not require this on the Pembroke Ave over M-39 bridge, so I'm assuming they will not for this bridge either. This will be verified prior to scope verification.

2. Will the Consultant be required to enter into a contract (subconsultant agreement) with LTU or Dr. Grace or both?

The selected design team shall retain Dr. Grace as a mandatory subconsultant.

3. Will LTU and/or Dr. Grace be responsible for information, design criteria, etc. that they provide to the Consultant? If not, will MDOT assume the responsibility on their behalf?

Yes, Dr. Grace will provide design criteria, and provide reviews, finite modeling, etc. Even though there are no AASHTO provisions for CFRP, the ACI code does. No, MDOT will not assume responsibility for the design.