

Questions – 4/21/2023:

1. In consideration of the project specific details outlined below, will THEA reconsider the response to question 4 posted on 4/17/23?

- The project requires the design and construction of over 150 bridge foundations to support minor bridge widenings; a typical 3-span bridge crossing requires 12 new foundations alone. The suggested change to the foundation design criteria will have significant cost and schedule impacts to the project.
- These minor widenings and short spans result in modest loads which can be efficiently supported by single shaft foundations. There are several other locations in the vicinity of the downtown viaduct that would have significant impacts to other utilities and to the access/egress to the Convention Center.
- The design criteria and specifications contain numerous procedures for single shaft foundations developed in recent years to provide equivalent reliability and performance to other foundation types.
- Tampa's geology provides an additional layer of reliability for single shaft foundations; a typical interior widening pier is required to support a factored design load of approximately 250T, and a minimum diameter shaft with a minimum rock socket provides over 500T of resistance.
- Over 200 single shaft foundations were constructed along the existing viaduct during the recent deck replacement project.
- Many of the existing Piers have 4 columns; these piers will have 6 columns with independent foundations upon completion of the project. These piers are subjected to the existing non-redundant criteria in the current design criteria for the project; further restrictions to enhance reliability are not required.

Answer: After considering the constrained site conditions and other factors, THEA will allow single shaft (non-redundant) foundations on the project. An amendment will be issued addressing this change in the RFP.