

# Ohio Department of Transportation

## Prebid Questions

Project No. 095009

Sale Date - 9/30/2009

Question Submitted: 9/22/2009

Question Number: 1

1. Note on page 5/10 says a minimum embedment length of 12'0". Where is this measured from? Top of footer, bottom of creek bed, or bottom of excavation? 2. Item 504 - Sheet Pile left in place? Does this have to be new sheets?

**1. Response: Sheet 9 of 10 of the plan set provides details which help define the 12'-0" embedment requirement. For the temporary sheet piling near the abutments -> 12'-0" minimum embedment below bottom of excavation. For sheet piling left in place at the piers -> 12'-0" minimum embedment beginning at the anticipated future scour depth (measured 11'-6" below top of footing) Anticipated embedment at time of installation = 12'-0" plus 5'-0" future scour depth (below 6'-6" max current scour depth) Depth of embedment may vary as current scour depth varies around pier foundation. 2. Response: CMS 504.02 states "Furnish new sheet piling conforming to 711.03. The Contractor may use used sheet piling in good condition that conforms to project requirements provided it is inspected and approved by the Engineer."**

Question Submitted: 9/23/2009

Question Number: 2

Please clarify how the pay quantity for the Sheet Piling left in place is determined. It appears with the cut-off elevation and the perimeter given that the quantity is a significant under-run.

**ODOT has verified that the quantity listed in the general summary for Item 504 - Sheet Piling Left in Place is accurate. Please bid the quantity as shown.**

Question Submitted: 9/29/2009

Question Number: 3

Q1) Could you provide the calculations for the sheet piling left in place? I calculate 2 piers x 119' perimeter x 23.5' length = 5,593 SF Q2) Can the embedment requirements for the sheet piling be changed to 12' minimum embedment or until sheet piling refusal? Q3) The plans call for the sheet piling to be installed to a tip elevation of 774.00 This requires 6' embedment into the hard sandy silt where the N-value is up to 100 or more. According to all of our piling equipment suppliers, this penetration can only be achieved with impact pile drivers. With limited clearance under the bridge, there isn't enough room for an impact pile driver.

**A1) Please bid the quantity of sheet piling outlined in the contract documents. A2) No. The sheet piling left-in-place shall be driven to the tip elevation outlined in the contract documents. A3) The Department believes the sheeting can be driven to the tip elevation outlined in the contract documents.**

Question Submitted: 9/30/2009

Question Number: 4

The borings indicate a hard glacial till above the elevation of the desired tip of the pile. This cannot be accomplished with the equipment that fits under the bridge. Will ODOT consider a lesser toe as long as the in-fill material can be placed (concrete or dirt)?

**No. The Department believes the sheeting can be driven to the tip elevation outlined in the contract documents.**

All prospective bidders, subcontractors, suppliers, materialmen and all others who have an interest in these prebid questions and answers are advised that these items are being provided for informational purposes only and are not part of the bidding documents. If a question warrants a clarification, the Department will issue an addenda addressing the request for clarification to all plan holders. If the Department believes that the bidding documents adequately address the request, the contractor will be advised accordingly.