

## Port of Albany

### Phase 3 – Wharf Test Program

### Bid RFI's

1. Please provide details on the 24" and 30" diameter pipe piles for the concrete and rebar.
  - a. *M&N Response: Both 24" and 30" steel pile piles are plain driven piles and are to be provided without reinforcing steel and concrete.*
2. What is the proposed final condition of the top of the piles for this project?
  - a. *M&N Response: Refer to Sheet Reference No. S-101, Note 2, which states: "All test piles and test shafts shall be abandoned in place after acceptance of the test pile report, with the top of each installed test foundation completely removed to a depth of two feet below adjacent existing grade."*
3. Please confirm that the minimum rock socket lengths noted in the "Test Drilled Shafts" table are indicative of the total rock socket length. Alternatively, clarify if the rock socket lengths need to be extended to accommodate any test equipment (e.g., jack(s) and load plates) while providing a minimum 20-foot-long rock socket for the load test.
  - a. *M&N Response: The 20-foot rock socket length indicated on the plans is the minimum length required above the load cell for testing. Provide additional height/depth as needed for accommodation of test equipment within the reach of rock socket and/or if additional shaft is required below the test apparatus location.*
4. The rebar cages shown in Sections A1 and A2 do not indicate the position of the bi-directional load cell(s). Please confirm that the load cell(s) will be located at the base of each test shaft and that the rebar cages will be adjusted accordingly.
  - a. *M&N Response: It is anticipated that the load cell(s) would be located at the base of each test shaft. The Contractor and their testing firm must consider the end bearing capacity required to achieve specified shaft loads, and if necessary provide additional measures (e.g., shaft provided below the testing apparatus) as needed to provide for a successful test. See Specification Section 31 60 29, "Drilled Shafts," paragraphs 1.4.D.4.d through 1.4.D.4.g for additional information. Adjust rebar cage lengths as necessary to provide reinforcing for the full height of the shaft as required by the installation.*
5. Please confirm that it is acceptable for the CSL tubes that are installed in the test shafts to extend from the top of the load cell assembly to the shaft cutoff elevation (i.e., not pass through load cell assembly to tip of shaft).
  - a. *M&N Response: Confirmed. It is acceptable to cap CSL tubes immediately above the testing apparatus.*
6. Drilling slurry, if used, will obscure the shaft excavation sidewalls from visual inspection. Please confirm that it is acceptable to use a sonar/sonic caliper to profile the sidewalls of the shaft if they are obscured by slurry or other drilling mud.
  - a. *M&N Response: Alternative methods of drilling/excavation inspection may be considered acceptable, subject to both Engineer review and demonstration of satisfactory performance of those proposed methods.*

7. Deep Foundation Test Program Sheets S-101 - Confirm that the minimum rock socket lengths noted in the "Test Drilled Shafts" table are indicative of the total rock socket length. Alternatively, clarify if the rock socket lengths need to be extended to accommodate any test equipment (e.g., jack(s) and load plates) while providing a minimum 20-foot-long rock socket for the load test.
  - a. *M&N Response: See response to RFI item 3.*
8. Deep Foundation Test Program Sheets S-501 - The rebar cages shown in Sections A1 and A2 do not indicate the position of the bi-directional load cell(s). Confirm that the load cell(s) will be located at the base of each test shaft and that the rebar cages will be adjusted accordingly.
  - a. *M&N Response: See response to RFI item 4.*
9. Deep Foundation Test Program Sheets S-501 - Confirm that it is acceptable for the CSL tubes that are installed in the test shafts to extend from the top of the load cell assembly to the shaft cutoff elevation (i.e., not pass through load cell assembly to tip of shaft).
  - a. *M&N Response: See response to RFI item 5.*
10. Specification Section 31 63 29-9 - Drilling slurry, if used, will obscure the shaft excavation sidewalls from visual inspection. Confirm that it is acceptable to use a sonar/sonic caliper to profile the sidewalls of the shaft if they are obscured by slurry or other drilling mud.
  - a. *M&N Response: See response to RFI item 6.*
11. Please advise if the drilled shaft rock socket is designed by friction, end bearing or both.

*M&N Response: The drilled shaft test program is devised to evaluate ultimate shaft capacities considering both skin friction and end bearing. The results of this test program will inform the design requirements for the production foundations, including possible adjustments to foundation capacities attributed to both skin friction and end bearing, length of sockets, and other related considerations. Test loads were calculated considering skin friction / bond to rock only. Refer to Sheet Reference S-001, Foundation Note*

12. The contract documents reference liquidated damages, but I have not been able to identify a specified amount. Please confirm whether liquidated damages are applicable to this contract and, if so, advise of the amount.
  - a. No liquidated damages on this contract.
13. Is there a contour drawing of the current existing grades and site features available for bidders?
  - a. available via the link provided.