|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| DOTLOGO2 | | | | | | | **Drilled Shaft Excavation**  **And Inspection Record** | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | |
| Structure Number: | | |  |  | Date Drilling Started: | | |  | |  | Route: |  | | | | | | | | | | | |  | | |
| Abutment/Pier No: | | |  |  | Date Drilling Completed: | | |  | |  | Section: |  | | | | | | | | | | | |  | | |
| Shaft No: | | |  |  | Closest Boring(s): | | |  | |  | County: |  | | | | | | | | | | | |  | | |
| Drilling Contractor: | | |  |  | Inspection By: | | |  | |  | Contract: |  | | | | | | | | | | | |  | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | |
| As drilled shaft layout sketch with shafts numbered, north arrow included, and significant deviations from plan locations noted | | | | | | | | |  | | | | | | | | | | | | | | | |
|  | | | | | | | | | **Field Elevations & Diameters** | | | | | | | | | | | | | | | |
|  | | | | | | | | | Ground surface at Shaft elev. | | | | | | | | | |  | | | |  | |
|  | | | | | | | | | Initial/Max. auger dia. | | | | | | | | | |  | | | |  | |
|  | | | | | | | | | Outer casing tip elev. | | | | | | | | | |  | | | |  | |
|  | | | | | | | | | Outer casing dia. | | | | | | | | | |  | | | |  | |
| Elev. | Time | Soil/Rock Description | | | | Drilling Observations | | | Inner casing tip elev. | | | | | | | | | |  | | | |  | |
|  |  |  | | | |  | | | Inner casing dia. | | | | | | | | | |  | | | |  | |
|  |  |  | | | |  | | | Below inner casing auger dia. | | | | | | | | | |  | | | |  | |
|  |  |  | | | |  | | | Top of rock elev. | | | | | | | | | |  | | | |  | |
|  |  |  | | | |  | | | Rock socket dia. | | | | | | | | | |  | | | |  | |
|  |  |  | | | |  | | | Rock socket tip elev. | | | | | | | | | |  | | | |  | |
|  |  |  | | | |  | | | **Drilling Fluids** | | | | | | | | | | | | | | | |
|  |  |  | | | |  | | | Elev. water table encountered | | | | | | | | | |  | | | |  | |
|  |  |  | | | |  | | | Drilling fluid/slurry used? | | | | | | | | | | | | | | | |
|  |  |  | | | |  | | | Yes  No | | | | | | | | | | | | | |  | |
|  |  |  | | | |  | | | Excav. elev. when fluid added | | | | | | | | | | |  | | |  | |
|  |  |  | | | |  | | | Top of drilling fluid head elev. | | | | | | | | | | |  | | |  | |
|  |  |  | | | |  | | | Drilling fluid type | | | | | | | | | | | | | | | |
|  |  |  | | | |  | | | water  mineral  polymer | | | | | | | | | | | | | | | |
|  |  |  | | | |  | | | Test density | | | | | | |  | | | | | | |  | |
|  |  |  | | | |  | | | Test viscosity | | | | | | |  | | | | | | |  | |
|  |  |  | | | |  | | | Test pH | | | | | | |  | | | | | | |  | |
|  |  |  | | | |  | | | Test sand content | | | | | | |  | | | | | | |  | |
|  |  |  | | | |  | | | All Test meet specifications? | | | | | | | | | | | | | | | |
|  |  |  | | | |  | | | Yes  No | | | | | | | | | | | | | | | |
|  |  |  | | | |  | | | **Shaft Side & End Bearing** | | | | | | | | | | | | | | | |
|  |  |  | | | |  | | | Are soils/rock encountered at end of shaft | | | | | | | | | | | | | | | |
|  |  |  | | | |  | | | consistent with closest boring/core? | | | | | | | | | | | | | | | |
|  |  |  | | | |  | | | Yes  No | | | | | | | | | | | | | | | |
|  |  |  | | | |  | | | Are soils/rock encountered along shaft | | | | | | | | | | | | | | | |
|  |  |  | | | |  | | | consistent with borings/core? | | | | | | | | | | | | | | | |
|  |  |  | | | |  | | | Yes  No | | | | | | | | | | | | | | | |
|  |  |  | | | |  | | | Has the RE or Geotechnical Engineer | | | | | | | | | | | | | | | |
|  |  |  | | | |  | | | inspected the shaft to verify capacity? | | | | | | | | | | | | | | | |
|  |  |  | | | |  | | | Yes  No | | | | | | | | | | | | | | | |
|  |  |  | | | |  | | | **Shaft Tolerance & Cleaning** | | | | | | | | | | | | | | | |
|  |  |  | | | |  | | | Shaft excavation % plumbness | | | | | | | | | |  | | | |  | |
|  |  |  | | | |  | | | Top of shaft excavation | | | | | | | | | | | | | | | |
|  |  |  | | | |  | | | center from plan location | | | | | | | | | |  | | |  | | |
|  |  |  | | | |  | | | Cleaning methods | | | |  | | | | | | | | | |  | |
|  |  |  | | | |  | | | Verification methods | | | | |  | | | | | | | | |  | |
|  |  |  | | | |  | | | Sediment thickness left in | | | | | | | | | | | | | | | |
|  |  |  | | | |  | | | place (inches) | | | | | | | | | |  | | |  | | |
|  |  |  | | | |  | | | **Rebar Cage** | | | | | | | | | | | | | | | |
|  |  |  | | | |  | | | Cage centralizers type | | | | | |  | | | | | | |  | | |
|  |  |  | | | |  | | | Cage centralizers size(s) | | | | | | |  | | | | | |  | | |
|  |  |  | | | |  | | | Cage distorted during lifting? | | | | | | | |  | | | |  | | | |
|  |  |  | | | |  | | | Number of cage lifting points | | | | | | | | |  | | | | |  | |
|  |  |  | | | |  | | | Shaft cleaning checked after placement | | | | | | | | | | | | | | | |
|  |  |  | | | |  | | | Yes  No | | | | | | | | | | | | | | | |
|  |  |  | | | |  | | |  | | | | | | | | | | | | | | | |