

DRILLED SHAFT EXCAVATION/ CONCRETE PLACEMENT FOR BRIDGES

DISTRIBUTION: Original – Construction Engineer, Copies – Region Soils/Materials Engineer, Bureau of Bridges and Structures/Geotechnical Services Section

PROJECT DESCRIPTION						
STRUCTURE NO. – CONTROL SECTION					DATE	
JOB NO.	SUBSTRUCTURE UNIT		PRIME CONTRACTOR		DRILL RIG DETAILS	
PROJECT ENGINEER	INSPECTED BY		SUBCONTRACTOR		CONTRACTOR'S ON-SITE REPRESENTATIVE	
DO YOU HAVE A COPY OF THE APPROVED DRILLED SHAFT INSTALLATION PLAN? <input type="checkbox"/> YES <input type="checkbox"/> NO						
SHAFT DETAILS						SHAFT NO.
ELEVATIONS	PLAN	AS BUILTS	DIMENSIONS	PLAN	AS BUILTS	TYPE OF CONSTRUCTION <input type="checkbox"/> DRY <input type="checkbox"/> WET
Top Shaft Elev.			Soil Auger Dia.			
Grd. Surface Elev.			Soil Shaft Length			
Water Table Elev.			Rock Socket Dia.			
Msd. Top Rock Elev.			Rock Socket Length			
Msd. Avg. Shaft Bot Elev.			Constructed Shaft Length			
CASING INFORMATION (if applicable)						
<u>Casing (Temp/ Perm)</u>	<u>Casing (Temp/ Perm)</u>	<u>Casing (Temp/ Perm)</u>	<u>Casing (Temp/ Perm)</u>	<u>Casing (Temp/ Perm)</u>	<u>Casing (Temp/ Perm)</u>	
Diameter _____	Diameter _____	Diameter _____	Diameter _____	Diameter _____	Diameter _____	
Top Elev. _____	Top Elev. _____	Top Elev. _____	Top Elev. _____	Top Elev. _____	Top Elev. _____	
Length _____	Length _____	Length _____	Length _____	Length _____	Length _____	
DRILLING SLURRY						
WAS DRILLING SLURRY USED? <input type="checkbox"/> YES <input type="checkbox"/> NO NOTE: If yes, use only polymer type slurry.						
SLURRY MANUFACTURER: _____						
POLYMER SLURRY VALUES						
PROPERTY	TEST METHOD	REQUIRED	RESULTS	TIME	RESULTS	TIME
Density lbs/ft ³	Density Balance	<63				
Viscosity, s/ft	Marsh Cone	33-43				
pH	pH Paper or Meter	8.0-11.0				
Sand Content	API-13B-1	<1%				
IS DRILLED SHAFT PLUMB WITHIN 1% OF SHAFT LENGTH? <input type="checkbox"/> YES <input type="checkbox"/> NO						
IF NO, WHAT PERCENTAGE IS OUT-OF-PLUMB? _____ %						
TIME & DATE	DEPTH	ELEVATION	TYPE OF SOIL/ROCK & COMMENTS (i.e., Water/Seepage, Caving Soil Layers, Obstructions, Gases, Changes in Equipment or Tooling, etc.)			

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Note: If placing concrete using tremie methods, the end of the tremie pipe must be within one tremie tube diameter of the base, according to Subsection 718.03.H.2 of the <i>Standard Specification for Construction</i> .				Note: Check the depth of the shaft in the center and at least four spots around the edge of the shaft. Check the depths before the rebar cage is set and after the rebar case is set on all drilled shaft foundations.			
CLEANOUT METHOD							
<input type="checkbox"/> Bucket		<input type="checkbox"/> Airlift		<input type="checkbox"/> Pump		<input type="checkbox"/> Other	
REBAR CAGE WITHIN SPECIFICATIONS? <input type="checkbox"/> YES <input type="checkbox"/> NO				REBAR CAGE CENTERED WITHIN SPECIFICATIONS? <input type="checkbox"/> YES <input type="checkbox"/> NO			
IS DRILLED SHAFT CLEANED WITHIN SPECIFICATION TOLERANCE? <input type="checkbox"/> YES <input type="checkbox"/> NO				NOTE: Use only round noncorrosive plastic spacers			
CHECK SHAFT CLEANLINESS BEFORE PLACING STEEL REINFORCEMENT <input type="checkbox"/>				CHECK SHAFT CLEANLINESS AFTER PLACING STEEL REINFORCEMENT <input type="checkbox"/>			
CONCRETE PLACEMENT							
WATER ELEVATION AT START OF CONCRETE PLACEMENT				WAS THE CONCRETE VOLUME PLOT USED (Form 0393)? <input type="checkbox"/> YES <input type="checkbox"/> NO			
CONCRETE PLACEMENT METHOD <input type="checkbox"/> Free-Fall <input type="checkbox"/> Tremie				SLUMP <input type="checkbox"/> Free-Fall 6" – 8" <input type="checkbox"/> Tremie 7" – 9"			
PLAN CONCRETE VOLUME				AIR CONTENT %			
ACTUAL CONCRETE VOLUME				BEGIN POUR: DATE _____ TIME _____			
GRADE OF CONCRETE <input type="checkbox"/> Grade S2 <input type="checkbox"/> Grade-T				END POUR: DATE _____ TIME _____			
WAS PROPER AMOUNT OF CONCRETE HEAD MAINTAINED DURING CASING REMOVAL? <input type="checkbox"/> YES <input type="checkbox"/> NO							
TRUCK NO.	ACTUAL CONCRETE VOLUME PLACED	START TIME	FINISH TIME	WATER/SLURRY ELEVATION (If applicable)	CONCRETE ELEVATION	DEPTH OF TREMIE TUBE INTO CONCRETE (If applicable)	NOTES (Delays, Additives, Breaching, Casing removal)
Note: CSL tubes must be filled to the top with water after the concrete is poured and rechecked 5 minutes later. Top water off again if needed.						CSL Test Performed: <input type="checkbox"/> YES <input type="checkbox"/> NO	
Note: Make sure contractor uses pipe tape or pipe dope on all threaded ends and connections for the CLS tubes.							
INSPECTOR'S SIGNATURE						DATE	