

Sampling & Testing Guide-Minimum Frequency
CONCRETE DRILLED SHAFT FOUNDATIONS
 SS-01032

October 17, 2006
 Supersedes October 18, 2005

Matls. IM 204
 Appendix I

MATERIAL OR CONSTRUCTION ITEM	TESTS	METHOD OF ACCEPTANCE & RELATED IMs	QUALITY CONTROL					INDEPENDENT ASSURANCE & VERIFICATION S&T					REMARKS	
			SAMPLE BY	FREQ.	SAMPLE SIZE	TEST BY	REPORT	S&T TYPE	SAMPLE BY	FREQ.	SAMPLE SIZE	TEST BY		REPORT
SOURCE INSPECTION														
Aggregate-Fine (4110)		AS 209												
Aggregate-Coarse (4115)		AS 209												
Portland Cement (4101)	Quality	AS 401												
Fly Ash (4108)	Quality	AS 491.17												
Mixing Water (4102)	Quality							DME	1/project	1 quart	CTRL	731	Not required for potable water from Municipal Supply	
Air Entraining Admixture	Quality	AS 403												
Retarding Admixture	Quality	AS 403												
Reinforcing Steel Bars (4151)	Quality	AS 451												
Permanent Casing	Quality	Cert A											According to plans or other instructions	
Drilling Slurry		Visual DS-01038												
AS-Approved Source		Cert A-Type A Certification					RCE-Resident Construction Engineer/Project Engineer					IA-Independent Assurance		
ASD-Approved Shop Drawing		Cert C-Type C Certification					DME-District Materials Engineer					V-Verification		
S&T-Sampling & Testing		Cert D-Type D Certification					CTRL-Central Materials Office							
							CONTR-Contractor							

Quality samples not required when mix quantity is less than 50 cu. yd.

Sampling & Testing Guide-Minimum Frequency
CONCRETE DRILLED SHAFT FOUNDATIONS
 SS-01032

October 17, 2006
 Supersedes October 18, 2005

Matls. IM 204
 Appendix I

MATERIAL OR CONSTRUCTION ITEM	TESTS	METHOD OF ACCEPTANCE & RELATED IMs	QUALITY CONTROL					INDEPENDENT ASSURANCE & VERIFICATION S&T					REMARKS		
			SAMPLE BY	FREQ.	SAMPLE SIZE	TEST BY	REPORT	S&T TYPE	SAMPLE BY	FREQ.	SAMPLE SIZE	TEST BY		REPORT	
PLANT INSPECTION															
Aggregate- Fine (4110)	Gradation	302, 306 336	CONTR	3/lot	IM 301	CONTR	800240	IA V	DME RCE/ CONTR	1/1000 cy 1 st day+20%	IM 301 IM 301	DME RCE		System Approach Applicable	
	Moisture	308, 528	CONTR	1/lot	1000 gm	CONTR								See IM 528 if Moisture Probe is used	
	Sp. Gr.	307	CONTR	IM 528	1000 gm	CONTR									
	Quality	AS 209													
Aggregate- Coarse (4115)	Gradation	302, 306 336	CONTR	3/lot	IM 301	CONTR			IA	DME RCE/ CONTR	1/1000 cy 1 st day+20%	IM 301 IM 301	DME RCE		System Approach Applicable
	Moisture	308, 528	CONTR	1/lot	2000gm	CONTR									
	Sp. Gr.	307	CONTR	IM 528	2000gm	CONTR									
	Quality	AS 209							V	DME	1/1000 cy	50 lb	CTRL		
Portland Cement	w/c ratio	528	CONTR	1/pour		CONTR									
	Quality	AS Cert D							V	DME	1/1000 cy	15 lb	CTRL		
Fly Ash	Quality	AS Cert D		Each Load			800240								
Air-Entraining Admixture (4103)		AS 403						V	DME	1/batch	1 pint	CTRL		Sample lots not previously reported or as required by DME	
Retarding Admixture		AS 403						V	DME	1/batch	1 pint	CTRL		Sample lots not previously reported or as required by DME	
AS-Approved Source ASD-Approved Shop Drawing S&T-Sampling & Testing			Cert A-Type A Certification Cert C-Type C Certification Cert D-Type D Certification				RCE-Resident Construction Engineer/Project Engineer DME-District Materials Engineer CTRL-Central Materials Office CONTR-Contractor				IA-Independent Assurance V-Verification				

Quality samples not required when mix quantity is less than 50 cu. yd.

Sampling & Testing Guide-Minimum Frequency
CONCRETE DRILLED SHAFT FOUNDATIONS
 SS-01032

October 17, 2006
 Supersedes October 18, 2005

Matls. IM 204
 Appendix I

MATERIAL OR CONSTRUCTION ITEM	TESTS	METHOD OF ACCEPTANCE & RELATED IMS	QUALITY CONTROL					INDEPENDENT ASSURANCE & VERIFICATION S&T					REMARKS	
			SAMPLE BY	FREQ.	SAMPLE SIZE	TEST BY	REPORT	S&T TYPE	SAMPLE BY	FREQ.	SAMPLE SIZE	TEST BY		REPORT
GRADE INSPECTION														
Plastic Concrete	Air Content	316, 327					E145*	IA	RCE	1/30 cy		RCE		DME may adjust
	Slump	317, 327	RCE	1/30 cy		RCE		IA	DME	1/30 cy		RCE		DME may adjust
	Cylinders								DME	3/project		DME		Primary Projects Only (Information only)
Reinforcing Steel (4151)	Quality	AS Cert A		Each Shipment			Field Book							
Metal Access Pipe		Visual												
Drilling Slurry	Density, Viscosity, pH, Sand Content	387	CONTR	1/2 hours		CONTR								1/4 hours if consistent
Crosshole Sonic Log Test		SS-01032	CONTR	1/shaft		CONTR	Report, Analysis, Interpretation							
AS-Approved Source		Cert A-Type A Certification		RCE-Resident Construction Engineer/Project Engineer				IA-Independent Assurance						
ASD-Approved Shop Drawing		Cert C-Type C Certification		DME-District Materials Engineer				V-Verification						
S&T-Sampling & Testing		Cert D-Type D Certification		CTRL-Central Materials Office										
				CONTR-Contractor										

Quality samples not required when mix quantity is less than 50 cu. yd.

* Available from the Office of Construction.