

Sampling & Testing Guide-Minimum Frequency

CONCRETE DRILLED SHAFT FOUNDATIONS

Matls. IM 204
Appendix I

Section 2433

April 20, 2010
Supersedes October 17, 2006

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													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	2433											
AS-Approved Source														ent Assurance
ASD-Approved Shop Drawing														V-Verification
S&T-Sampling & Testing														
				Cert A-Type A Certification				RCE-Resident Construction Engineer/Project Engineer				IA-Independent		
				Cert C-Type C Certification				DME-District				Materials Engineer		
				Cert D-Type D Certification				DME-District				CTRL-Central Materials Office		
								CONTR-Contractor						

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			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					CONTR					IA	DME RCE/ CONTR	1/1000 cy 1 st day+20%	IM 301 IM 301	DME RCE
Aggregate- Coarse (4115)	Gradation	302, 306 336	CONTR	3/lot	IM 301	CONTR										
	Moisture	308, 528	CONTR	1/lot	2000gm	CONTR										
	Sp. Gr.	307	CONTR	IM 528	2000gm	CONTR					V	DME	1/1000 cy	50 lb	CTRL	
	Quality	AS 209	CONTR				CONTR									
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							V	DME	1/1000 cy	15 lb	CTRL	
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 DME-District Cert D-Type D Certification				RCE-Resident Construction Engineer/Project Engineer Materials Engineer CTRL-Central Materials Office CONTR-Contractor				ent Assurance V-Verification						
Quality samples not required when mix quantity is less than 50 cu. yd.																

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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		2433	CONTR	1/shaft		CONTR	Report, Analysis, Interpretation							
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												ent Assurance V-Verification

