

**SAMPLING/TESTING GUIDE FOR ACCEPTANCE AND VERIFICATION**

MATERIALS/TESTS	ITEM NO. (See Note 6)	ACCEPTANCE OR CONTRACTOR SAMPLING & TESTING	SAMPLING & TESTING FOR SMALL QUANTITIES	VERIFICATION SAMPLING & TESTING (N/A FOR SMALL QUANTITIES)	SAMPLE LOCATION	SAMPLE SIZE	REMARKS
<b>01. CONCRETE (PAVEMENT, STRUCTURAL AND MISCELLANEOUS)</b>							
A. Cement (See Note 1)	701	Certificate of Compliance. Check samples of 1 for approximately every 5,000 yd <sup>3</sup> of concrete placed and as required for control	If concrete is used for incidental construction, Certificate of Compliance	N/A	Weigh hopper or in the feed line immediately in advance of the hopper	30 lbs.	
B. Aggregate (See Note 1)	703.01						
(1) Fine & Coarse Aggregate	703.02						
(a) Gradation		1 for approximately every 2 weeks or 500 yd <sup>3</sup> of concrete placed and as required for control	(See Note 2)	1 per 10 acceptance tests	(See Note 3)	50 lbs. (C.A.) 10 lbs. (F.A.)	
(b) Specific Gravity		When aggregate changed or as required for source information	N/A	N/A	(See Note 3)	10 lbs. (C.A.) 5 lbs. (F.A.)	
(c) Moisture		As required for information	N/A	N/A	(See Note 3)	5 lbs. (C.A.)	
(2) Coarse Aggregate							
(a) Clay Lumps and Friable Particles; L.A. Abrasion; and Flat and Elongated Pieces		When aggregate changed or at least once a year	N/A	N/A	(See Note 3)	200 lbs.	
(3) Fine Aggregate							
(a) Sand Equivalent		If required, 1 for approximately every 2 weeks or 3,000 yd <sup>3</sup> of concrete placed or as required for control	(See Note 2)	When required, 1 per 5,000 yd <sup>3</sup>	(See Note 3)	2 lbs.	
(b) Clay Lumps and Friable Particles; Organic Impurities; and L.A. Abrasion on Parent Material for Manufactured Fines Only		When aggregate changed or at least once a year or 1 per project	N/A	1 per project	(See Note 3)	50 lbs.	
(c) Complete		When new source is proposed for use or when aggregate changed	N/A	N/A	Stockpile / (See Note 3)	200 lbs. (C.A.) 100 lbs. (F.A.)	
C. Water (See Note 1)	712.01	1 per source. (Obviously suitable source as drinking water requires no sampling)	N/A	N/A	At point of use	3 gals. - Use glass or plastic jugs w/ lined sealed lids	

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<b>01. CONCRETE (PAVEMENT, STRUCTURAL AND MISCELLANEOUS) CONT'D</b>							
D. Admixture	711	When admixture is initially used in state work, Certificate of Compliance with test results	If previously used in other state work, Certificate of Compliance	N/A			
E. Concrete Mixture - Pavements	411						
(1) Compressive Strength (28 days, 7 days), when required by Central Laboratory	601	1 set for approximately 300 yd <sup>3</sup> of concrete placed for concrete specified by class; 1 set for each 150 yd <sup>3</sup> and fractional thereof placed on any day or as required for acceptance for concrete specified by strength	1 set per day of pour	1 per project	At point concrete deposited in the work	1 set of 2 - 6"x12" cylinders for each test age	
(2) Flexural Strength		1 set per half day or as required for control	1 set per half day of pour or as required for control	1 per project	At point concrete deposited in the work	1 set of 2 - 6"x6"x 21" beams for each test age	
(3) Yield, Cement Factor, and Unit Weight (See Note 1)		As necessary to assure accuracy of mix design or as necessary for control. When yield test used for payment, 1 per project		When yield test used for payment, 1 per project	At point concrete deposited in the work	Approximately 1 ft	
(4) Slump Test		When test specimen are fabricated or when consistency or uniformity is questionable	When test specimen are fabricated or when consistency or uniformity is questionable	1 per project (Observation)	At point concrete deposited in the work		
(5) Entrained Air		When entrained air is specified, 1 approximately every 300 yd <sup>3</sup> or as necessary for control or as required for control.	N/A	When entrained air is specified, 1 per project	At point concrete deposited in the work		
F. Concrete Mixture - Bridges & Major Structures (R.C.B., P.C.C., Arch Culverts, & Retaining Walls)	504 503 601						
(1) Compressive Strength (28 days, 7 days)		1 set for approximately 300 yd <sup>3</sup> of concrete placed for concrete specified by class; 1 set for each 150 yd <sup>3</sup> and fractional thereof placed on any day or as required for acceptance for concrete specified by strength	1 set per day of pour	1 per project	At point concrete deposited in the work	1 set of 2 - 6"x12" cylinders for each test age	

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<b>01. CONCRETE (PAVEMENT, STRUCTURAL AND MISCELLANEOUS) CONT'D</b>							
(2) Yield, Cement Factor, and Unit Weight (See Note 1)	504 503 601	As necessary to assure accuracy of mix design or as necessary for control. When yield test used for payment, 1 per project	N/A	When yield test used for payment, 1 per project	At point concrete deposited in the work	Approximately 1 ft <sup>3</sup>	
(3) Slump Test		When test specimen fabricated or when consistency or uniformity is questionable	When test specimen are fabricated or when consistency or uniformity is questionable	1 per project (Observation)	At point concrete deposited in the work		
(4) Entrained Air		If entrained air is specified, 1 approximately every 300 yd <sup>3</sup> or as necessary for control or as required for control	N/A	When entrained air is specified, 1 per project	At point concrete deposited in the work.		
G. Concrete Mixture - Miscellaneous Concrete (Concrete for Incidental Construction)	601 604 607 608 609 610 621 622 623 640						
(1) Compressive Strength (28 days, 7 days)		1 set for each day when volume exceeds 25 yd <sup>3</sup> or as required for acceptance for concrete specified by strength	If concrete is less than 25 yd <sup>3</sup> , 1 per accumulative 100 yd <sup>3</sup> . None if total days less than 25 yd <sup>3</sup>	1 per project. When total days less than 25 yd <sup>3</sup> , none	At point concrete deposited in the work	1 set of 2 - 6"x12" cylinders for each test age	
(2) Yield, Cement Factor, and Unit Weight (See Note 1)		As necessary to assure accuracy of mix design or as necessary for control	N/A	If yield test used for payment, one (1) per project	At point concrete deposited in the work	Approximately 1 ft <sup>3</sup>	
(3) Slump Test		When test specimen are fabricated or when consistency or uniformity is questionable	N/A	1 per project (Observation)	At point concrete deposited in the work		
(4) Entrained Air		When entrained air is specified, 1 approximately every 300 yd <sup>3</sup> or as required for control	N/A	When entrained air is specified, 1 per project	At point concrete deposited in the work		

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<b>02. CEMENT TREATED PERMEABLE BASE</b>	309						
A. Cement (See Note 1)	701	Accepted by manufacturer's or supplier's Certificate of Compliance supplemented with check testing. Check sample for approximately every 5,000 yd <sup>3</sup> of concrete placed and as required for control	N/A	N/A	Weigh hopper or in the feed line immediately in advance of the hopper.	30 lbs.	
B. Aggregate (See Note 1)	703.02	1 per day or as required for control	N/A	1 per 10 acceptance tests	(See Note 3)	250 lbs.	
<b>03. ASPHALT CONCRETE</b>	401						
A. Asphalt Cement	702.01	1 per approximately every 7,500 tons of asphaltic concrete	If less than 500 gals. per project, Certificate of Compliance with test results	1 per project minimum	Plant line	2 qts.	
B. Aggregate	703.09						
(1) Gradation		1 per approximately every 500 tons of asphaltic concrete	If less than 150 tons per project, visual inspection	1 per 10 acceptance tests. 1 per project minimum	Plant conveyor belt	10 lbs.	
(2) Sand Equivalent		1 per approximately every 2,500 tons of asphaltic concrete	If less than 150 tons per project, none	1 per 10 acceptance tests. 1 per project minimum	Plant conveyor belt	10 lbs.	
(3) Los Angeles Abrasion, Stripping, K Factor, Flat & Elongated Pieces		1 per year per source, minimum	N/A	1 per year per source	Plant conveyor belt	40 lbs.	
(4) Complete Aggregate Test		When new source is proposed for use or when aggregate changed	N/A	When new source is proposed for use or when aggregate changed	Plant conveyor belt/ stockpile	200 lbs.	
C. Uncompacted AC Mixture For Specific Gravity	401	1 per approximately every 500 tons of asphaltic concrete	If less than 150 tons per project, none.	1 per 10 acceptance tests. 1 per project minimum	Jobsite - From paver at auger	5 lbs.	
D. Uncompacted AC Mixture For Asphalt Content & Design Check		1 per approximately every 7,500 tons of asphaltic concrete	If less than 150 tons per project, none	1 per project minimum	Plant - Off truck bed	15 lbs.	
E. Compacted AC Cores		1 per approximately every 3,000 yd <sup>2</sup> of surface area paved per day, minimum 3 per day	If less than 150 tons per project, none.	1 per 10 acceptance tests. 1 per project minimum	Jobsite - Pavement	4 in. diameter cores	

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04. PLANT MIX GLASSPHALT CONCRETE BASE COURSE	312	Same as Asphalt Concrete					
05. ASPHALT TREATED PERMEABLE BASE	311						
A. Asphalt Cement	702.01	1 per approximately every 7,500 tons of asphalt treated permeable base	If less than 500 gals. per project, Certificate of Compliance with test results	1 per project minimum	Plant line	2 qts.	
B. Aggregate	703.09						
(1) Gradation	311.03	1 per approximately every 3,000 tons of asphalt treated permeable base	If less than 250 tons per project, visual inspection	1 per 10 acceptance tests. 1 per project minimum	Plant conveyor belt	50 lbs.	
06. PRIME COAT	408 702.03	1 per approximately every 10,000 gals.	If less than 500 gals. per project, Certificate of Compliance with test results	1 per project minimum	Jobsite - Distributor truck	1 gal.	
07. TACK COAT	407 702.04	1 per approximately every 10,000 gals.	If less than 500 gals. per project, Certificate of Compliance with test results	1 per project minimum	Supplier's Plant - Storage tank before dilution	1 gal.	
08. BITUMINOUS SEALS	404, 409						
A. Asphalt Cement, Liquid Asphalt, and Asphalt Emulsion	702.01 702.03 702.04	1 per approximately every 10,000 gals.	If less than 500 gals. per project, Certificate of Compliance with test results	1 per project minimum	AC - Plant line LA - Distributor Tank Truck Emulsion - Supplier's plant storage tank	AC - 2 qts. LA - 1 gal. Emulsion - 1 gal.	
B. Aggregate	703.09 703.11						
(1) Gradation, L.A. Abrasion, Stripping and Flat & Elongated Pieces		1 prior to use and as required for information and/or acceptance	If less than 250 tons per project, visual inspection.	1 per project minimum	Plant conveyor belt	50 lbs.	

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<b>09. CUT SUBGRADE</b>	203						
A. Gradation, Sand Equivalent, Proctor	203	1 per soil type	If less than 2500 ft <sup>2</sup> , Certificate of Compliance	1 per project	Jobsite - On roadbed	250 lbs	
B. Compaction		1 per soil type per lift per 500 lin. ft. per lane	If less than 2500 ft <sup>2</sup> , visual inspection	1 Visual inspection per project	Jobsite - On roadbed	N/A	
<b>10. EMBANKMENT FILLS &amp; IMPORT BORROW</b>	203						
A. Gradation, Sand Equivalent, Proctor	203	1 per soil type	If less than 2500 ft <sup>2</sup> , Certificate of Compliance	1 per project	Jobsite - On roadbed	250 lbs	
B. Compaction Below 2.5 ft.		1 per lift per 2,000 yd <sup>3</sup>	If less than 3,000 yd <sup>3</sup> , visual inspection	N/A	Jobsite - On roadbed	N/A	
C. Compaction Above 2.5 ft.		1 per lift per 500 lin. ft. per lane	If less than 500 lin. ft. per lane, visual inspection	1 Visual inspection per project	Jobsite - On roadbed	N/A	
<b>11. STRUCTURAL BACKFILL</b>	206						
A. Gradation, Sand Equivalent, Proctor	703.20	1 per 1,500 yd <sup>3</sup> per type	If less than 250 yd <sup>3</sup> of type B backfill, Certificate of Compliance. N/A for Type A backfill	1 per 10 tests, but not less than 1	Jobsite - On roadbed	250 lbs.	
B. Compaction	206	1 per lift per 500 ft <sup>2</sup>	If less than 500 ft <sup>2</sup> , per use for type B backfill, none. N/A for type A backfill	1 Visual inspection per project	Jobsite - On roadbed	N/A	
<b>12. TRENCH BACKFILL (INCLUDING BED COURSE)</b>	206						
A. Gradation, Sand Equivalent, Proctor, Resistivity & pH as Required	703.21	1 per 1,500 yd <sup>3</sup> per type	If less than 100 yd <sup>3</sup> traffic area, or if less than 250 yd <sup>3</sup> non-traffic area, Certificate of Compliance	1 per 10 tests, but not less than 1	Jobsite - On roadbed	250 lbs.	
B. Compaction	206	1 per lift per 300 lin. ft	1 per traffic crossing per lift. If less than 300 lin. ft. for other areas, visual inspection	Visual inspection	Jobsite - On roadbed	N/A	

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<b>13. AGGREGATE BASE COURSE</b>	304						
A. L.A. Abrasion, Plasticity Index, Flat & Elongated Pieces, Crushed Particles	703.06	1 per material source	If less than 250 yd <sup>3</sup> per project, Certificate of Compliance	N/A	Jobsite - On roadbed	100 lbs.	
B. Gradation, Sand Equivalent, Proctor	703.06	1 per 1,500 yd <sup>3</sup> per material type but not less than 1	If less than 250 yd <sup>3</sup> per project, Certificate of Compliance	1 per 10 tests, but not less than 1	Jobsite - On roadbed	250 lbs.	
C. Compaction	304	1 per lift per 1,000 ft <sup>2</sup>	If less than 1,000 yd <sup>3</sup> per project, visual inspection	Visual inspection	Jobsite - On roadbed	N/A	
<b>14. AGGREGATE SUBBASE</b>	305						
A. Plasticity Index Gradation, Sand Equivalent, Proctor	703.17	1 per 1,500 yd <sup>3</sup> , but not less than 1	If less than 250 yd <sup>3</sup> per project, Certificate of Compliance	1 per 10 tests, but not less than 1	Jobsite - On roadbed	250 lbs.	
B. Compaction	305	1 per lift per 1,000 ft <sup>2</sup>	If less than 1,000 yd <sup>3</sup> per lift per project, visual inspection	Visual inspection	Jobsite - On roadbed	N/A	
<b>15. UNTREATED PERMEABLE BASE</b>	306						
A. Prime Coat For Permeable Base Course	420.02	1 per approximately 10,000 gals. (See Note 1)	If less than 500 gals. per project, Certificate of Compliance	N/A	Storage tank before dilution	1 gal.	
B. Coarse Aggregate and Filler	703.04						
(1) Gradation, L.A. Abrasion, Flat & Elongated Pieces		1 per material source	If less than 500 tons per project, Certificate of Compliance	N/A	Jobsite - On roadbed	150 lbs.	
(2) Gradation		1 per 3,000 tons per material type	If less than 500 tons per project, Certificate of Compliance	1 per 10 tests, but not less than 1	Jobsite - On roadbed	60 lbs.	

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<b>16. PAVING FABRIC</b>	412						
A. Asphalt Cement	702.01	1 per approximately 10,000 tons of AC (See note 1)	If less than 500 gals. per project, Certificate of Compliance with test results	1 per project minimum	Plant line	2 qts.	
B. Paving Fabric	716.04	Certificate of Compliance and Certified test results	N/A	N/A			
<b>17. UNDERDRAINS</b>	605						
A. Perforated/Unperforated Pipe	706.12	Certificate of Compliance	N/A	N/A			
B. Permeable Separator	716.03	Certificate of Compliance	N/A	N/A			
C. Crushed Rock							
(1) Gradation, L.A. Abrasion	605 703.04	1 per 3,000 tons	If less than 500 tons per project, Certificate of Compliance	1 per project	Jobsite - On roadbed	150 lbs.	
<b>18. CURING COMPOUND</b>	411, 503 711.01	Certificate of Compliance	N/A				
<b>19. JOINT FILLER</b>	411, 503 705.01	Certificate of Compliance	N/A	1 per project		1 ft. x 2 ft.	
<b>20. JOINT SEALER</b>	411, 503 705.04	Certificate of Compliance	N/A				
<b>21. WATERPROOFING ASPHALT</b>	503, 705.06	Certificate of Compliance	N/A				
<b>22. WATERPROOFING PRIMER</b>	503, 705.06	Certificate of Compliance	N/A				
<b>23. ASPHALT SATURATED FABRIC</b>	503, 705.06	Certificate of Compliance	N/A				
<b>24. TRAFFIC PAINT</b>	629 708.06	From approved product list and 1 per batch	If less than 25 gallons per project, Certificate of Compliance with test results		Jobsite	2 qts.	
<b>25. RUBBER STOP</b>	503, 705.07	Certificate of Compliance	N/A				
<b>26. METAL GUARDRAIL</b>	606 710.04	Certificate of Compliance and Certified test results	N/A	N/A	N/A	N/A	



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27. GUARDRAIL HARDWARE	710.08	Certificate of Compliance and Certified test results	N/A	N/A	N/A	N/A	
28. BRIDGE RAILINGS AND POST	507 710.09, 710.10	Certificate of Compliance and Certified test results	N/A	N/A			
29. NEOPRENE BEARING PAD	503 712.09	Certificate of Compliance and Certified test results	N/A	N/A			
30. VITRIFIED CLAY PIPE	625, 706.08	Certificate of Compliance	N/A	N/A			
31. REINFORCED CONCRETE GUARDRAIL POST	606 710.06	Certificate of Compliance and Certified test results	N/A	N/A			
32. PAVEMENT MARKERS	629 712.40	Certificate of Compliance with Certified test results and 1 sample per batch	If less than 1,000 markers per project, Certificate of Compliance with Certified test results	1 for every 10,000 or less or 1 per batch	Jobsite or source	10 for non-reflective markers and 6 for reflective markers	
33. PAVEMENT MARKER EPOXY	629, 712.41	Certificate of Compliance	N/A	N/A			
34. PAVEMENT MARKER BITUMINOUS ADHESIVE	629 712.41	1 per lot	If less than 1000 markers per project, Certificate of Compliance with test results	1 per project minimum		½ box per lot	
35. PLASTIC CONDUIT	622, 625 706.09, 712.27	Certificate of Compliance and Certified test results	N/A	N/A			
36. RIGID STEEL CONDUIT	622 712.27	Certificate of Compliance and Certified test results	N/A	N/A			
37. SEED	618, 641	Certificate of Compliance					
38. ELECTRICAL CONDUCTOR	622, 712.34	Certificate of Compliance					
39. GEOSYNTHETICS	412, 605 648, 716	Certificate of Compliance	N/A				
40. THERMOPLASTIC	629, 712.55	Certificate of Compliance	N/A				
41. PAVEMENT MARKING TAPE	629, 712.53	Certificate of Compliance	N/A				
42. WOVEN FENCE	607 710.02	Certificate of Compliance and Certified test results	N/A	N/A	N/A	N/A	
43. TOPSOIL	617 712.17	1 sample per type	If less than 1,000 ft <sup>2</sup> , visual inspection	N/A	Jobsite	50 lbs.	

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44. PRESERVATIVES FOR TIMBER	502, 714.02	Certificate of Compliance					
45. CONCRETE PIPE	603 706.02 706.17	1 joint length for approximately every 50 joint lengths for 3 edge bearing load test. Inspected at plant and released by Central laboratory	If less than 100 lin. ft. per project, Certificate of Compliance		Strength tests usually performed at plant		1 D-load per every 50 pieces
46. CORRUGATED METAL PIPE	603 707.02 707.03	Visual, accepted by manufacturer's or supplier's Certificate of Compliance. Inspected at plant and released by Central Laboratory		N/A	At fabrication point or at time of use		
47. REINFORCING STEEL	504 602 610 709.01	Sample each size for each brand and additional samples as necessary. Approved together with fabricator's certified analysis	If less than 200 lbs. per project, Certificate of Compliance		Jobsite or source	3 specimen 36" long	
48. WIRE MESH REINFORCEMENT	602 709.01	Each 10 tons or fraction thereof	If less than 200 lbs. per project, Certificate of Compliance		Jobsite	3 feet x 3 feet	
49. WIRE ROPE OR CABLE	709.02	Certificate of Compliance with Certified test results and 1 sample per type per lot	1 set per project	1 set per project	Jobsite	2 strands 4-½ ft. long	✓
50. STRUCTURAL PLATE ARCHES		Certificate of Compliance		N/A	Jobsite		
51. PRE-STRESSED STRANDS	504 709.03	Certificate of Compliance with Certified test results and 1 sample per type per lot	1 set per project	1 set per project	Jobsite	2 strands 4-½ ft. long	
52. STEEL PRODUCTS	602.02	Certificate of Compliance and Certified test results	N/A	N/A			
53. BARB WIRE	607, 710.01	Certificate of Compliance	N/A	N/A			
54. BOLTS & HARDWARE	713.01 713.03 713.04	Certificate of Compliance and Certified test results	N/A	N/A			
55. BRICK	704	Certificate of Compliance	N/A	N/A			

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<b>57. CHAIN LINK FENCE</b>	607 710.03						
A. Fabric		Certificate of Compliance with Certified test results and 1 sample per lot or per project	If less than 200 ft <sup>2</sup> per project, Certificate of Compliance with Certified test results	1 sample per project or 1 sample per lot	Jobsite	3 ft. length, full height	
B. Posts		Certificate of Compliance with Certified test results and 1 sample per lot or per project	If less than 30 lin. ft. per project, Certificate of Compliance with Certified test results	1 sample per project or 1 sample per lot	Jobsite	12 inch length each end	
C. Tension Wire		Certificate of Compliance with Certified test results and 1 sample per lot or per project	If less than 100 lin. ft. per project, Certificate of Compliance with Certified test results	1 per sample per project or 1 sample per lot	Jobsite	3 ft. length	
D. Tie Wire		Certificate of Compliance with Certified Test results and 1 sample per lot or per project	If less than 25 lbs. per project, Certificate of Compliance with Certified test results	1 sample per project or 1 sample per lot	Jobsite	3 ft. length	
E. Fittings		Certificate of Compliance with Certified test results	N/A	N/A	N/A	N/A	

Note 1: Not required if the same source is being used on other projects and test is being made. Not necessary to duplicate the test for the sake of the record. The actual test results may be used anywhere they are applicable. (Established Source with Acceptable Quality Control/System Basis)

Note 2: When gradation is being determined by a qualified plant technician at the plant, the guide schedule for gradation and sand equivalent as sampled by the plant inspector may be reduced to approximately 1/5. However, the schedule should be supplemented with the contractor's quality control results.

Note 3: One of the following locations listed in order of preference: (a) Belt from weigh hopper to central or transit mixer; (b) Belt which feeds batch plant bins immediately preceding the weigh hopper, (c) Discharge gate of weigh hopper, (d) Discharge gates of bins feeding the weigh hopper at the batch plant. The location and method of sampling are to be determined and agreed upon by the Engineer and the Contractor. Once selected, the location and method of sampling are not to be changed during the life of the project, or so long as there is no change in Plant's configuration or operation.

Note 5: When the Contractor's tests results are to be verified on a comparative basis as part of the overall acceptance program, the verification testing should be done at a frequency of not less than 10 percent of the frequency for Contractor's sampling and testing in the approved quality assurance plan or a minimum of 5 sample which is the minimum number required to perform statistical evaluation. As Contractor demonstrate consistency of performance or test results are statistically similar, the Engineer may modify the sampling and testing requirements as shown below.

Note 6: Item Nos. shown are the common references encountered in most construction projects. For unusual items, consult the Materials Testing & Research Branch.