

Materials Sampling Guide

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Section 12

Foundation Course (Regular and Crushed Concrete)

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Minimum Material Certificate, Sample and Inspection Requirements							
MATERIAL	TYPE OF TEST	Q.C. SAMPLING AND TESTING BY CONTRACTOR	VERIFICATION SAMPLING AND TESTING BY NDOR			LOCATION OF ADDITIONAL INFORMATION	
Section: 12 – Foundation Course (Regular & Crushed Concrete)			FIELD PERSONNEL	BRANCH LAB	LINCOLN LAB	NOTE No.	PAGE No.
1) Crushed Concrete Foundation Course	Gradation, Moisture & Compaction	-----	<p>One sample for testing each 500 cubic yard or fraction thereof. The sample shall be taken at the project.</p> <p>Project personnel will supply the 60 pound sample needed to perform the testing shown under the Lincoln Lab column.</p> <p>The sample shall be taken at the project.</p>	-----	<p>One 60 pound sample for gradation and moisture density tests each 2500 cubic yards or fraction thereof. (Duplicate of sample tested in the field)</p>	---	---
2) All Aggregates & Soil Binder	Experimental Base Course Mixtures	-----	<p>Project personnel will submit the 60 pound samples of aggregates and the 20 pound sample of soil binder needed to perform the testing shown under the Lincoln Lab column.</p> <p>The sample shall be taken at the project.</p>	-----	<p>One 60 pound sample of each aggregate and one 20 pound sample of soil binder for EBCM mix design and moisture-density information.</p> <p>This sample is to be submitted prior to production.</p>	---	---
3a) Aggregate Foundation Course	Gradation, Moisture & Compaction	-----	<p>One sample for testing each 300 cubic yard or fraction thereof. The sample shall be taken at the project.</p> <p>Project personnel will supply the 10 pound sample needed to perform the testing shown under the Lincoln Lab column.</p> <p>The sample shall be taken at the project.</p>	-----	<p>First sample will be one 60 pound sample for gradation and moisture density tests. (Sample must be submitted prior to placement)</p> <p>Remaining samples will each be one 10 pound sample for gradation tests each 2500 cubic yard or fraction thereof. (Duplicate sample tested in the field).</p>	---	---
Laboratory samples must be submitted in a canvas bag or a clean five gallon bucket with lid.							

Minimum Material Certificate, Sample and Inspection Requirements							
MATERIAL	TYPE OF TEST	Q.C. SAMPLING AND TESTING BY CONTRACTOR	VERIFICATION SAMPLING AND TESTING BY NDOR			LOCATION OF ADDITIONAL INFORMATION	
Section: 12 – Foundation Course (Regular & Crushed Concrete) continued			FIELD PERSONNEL	BRANCH LAB	LINCOLN LAB	NOTE No.	PAGE No.
3 b) Aggregate Foundation Course – D	Gradation, FAA & Compaction	-----	<p>One sample for testing each 300 cubic yard or fraction thereof. The sample shall be taken at the project.</p> <p>Project personnel will supply the 20 pound sample needed to perform the testing shown under the Lincoln Lab column.</p> <p>The sample shall be taken at the project.</p>	-----	<p>First sample will be one 60 pound sample for gradation, FAA, Quality and moisture density tests. (Sample must be submitted prior to placement)</p> <p>Remaining samples will each be one 20 pound sample for gradation and FAA tests each 2500 cubic yard or fraction thereof. (Duplicate sample tested in the field).</p>	---	---
4) Mineral Aggregate for Foundation Course	Quality	-----	<p>Project personnel will supply the 60 pound sample needed to perform the testing shown under the Lincoln Lab column.</p> <p>The sample shall be taken from the project stockpile or the mixing location.</p>	-----	<p>One 60 pound sample for quality tests for source approval, if so designated on DR FORM 324 "Source of Aggregates to be Used" form or when changes in quality or characteristics occur.</p>	4	4
5) Soil Binder	Plasticity Index & Gradation	-----	<p>Project personnel will supply the 10 pound sample needed to perform the testing shown under the Lincoln Lab column.</p> <p>The sample shall be taken at the mixing locations.</p>	-----	<p>One 10 pound sample for testing each 1000 cubic yards of binder used or fraction thereof.</p>	---	---
Laboratory samples must be submitted in a canvas bag or a clean five gallon bucket with lid.							

Minimum Material Certificate, Sample and Inspection Requirements							
MATERIAL	TYPE OF TEST	Q.C. SAMPLING AND TESTING BY CONTRACTOR	VERIFICATION SAMPLING AND TESTING BY NDOR			LOCATION OF ADDITIONAL INFORMATION	
Section: 12 – Foundation Course (Regular & Crushed Concrete) continued			FIELD PERSONNEL	BRANCH LAB	LINCOLN LAB	NOTE No.	PAGE No.
6) Foundation Course	Moisture – Density	-----	In-place density tests each 1000 feet or less, or in case of short sections, moisture-density tests to confirm compliance with the specifications. In-place density tests each 1000 feet or less, per side for concrete base course widening. If tested layer is disturbed by construction operations, rain, etc. Check tests shall be taken to assure compliance with the specifications.	-----	Compaction curve data will be included with the EBCM mix design information.	---	---