

BOULDER COUNTY
TRANSPORTATION DEPARTMENT



Minimum Guideline for Sampling and Testing

April 1, 2013

**Boulder County Transportation Minimum Guideline for Sampling and Testing
Final Version April 1, 2013**

Pay Item	Type of Test	Sampling & Testing Frequency
203 Embankment	In-Place Density	1 per 2000 cu yds. Or a fraction thereof of embankment placed. (or as specified by Construction Inspector, Project Engineer or contract)
203 Embankment	Moisture Density Curve	1 per soil type.
206 STR. Backfill (Class 1)	Gradation	1 per 200 cu yds. (or as per contract)
206 STR. Backfill (Class 1)	Moisture Density Curve	1 per source. (or as per contract)
206 STR. Backfill (Class 1)	In Place Density	1 per 200 cu yds. (or as per contract)
206 STR. Backfill (Class 2)	Moisture Density Curve	1 per source. (or as per contact)
206 STR. Backfill (Class 2)	In Place Density	1 per 200 cu yds. or fraction thereof
207 Topsoil	Boulder County may elect to use the CDOT Field Materials Manual 2013. Schedule (Quality Assurance) for Minimum Materials Sampling, Testing and Inspection.	
304 Aggregate Base Course	Gradation	1 per 2000 tons or fraction thereof.
304 Aggregate Base Course	In-Place Density	1 per 2000 tons or fraction thereof or as specified by the Construction Inspector, Project Engineer or contract.
304 Aggregate Base Course	Moisture-Density Curve	1 per source.
306 Reconditioning	In Place Density	1 per 5000 sq. yds. or a fraction thereof.
306 Reconditioning	Moisture-Density Curve	1 per type.

**Boulder County Transportation Minimum Guideline for Sampling and Testing
Final Version April 1, 2013**

Pay Item	Type of Test	Sampling & Testing Frequency
403 HMA	Asphalt Content	1 per 1500 within the first 2 days of paving (or as specified by Project Engineer or Contract)
403 HMA	Binder	1 per mix design.
403 HMA	Gradation	1 per 1500 tons or a fraction thereof of mix produced (or as specified by Project Engineer or Contract)
403 HMA	In-Place Density	Top Lift 1 per 500 tons or a fraction thereof of mix placed. Bottom Lift 1 per 1000 (or as specified by Project Engineer or Contract)
403 HMA	Theoretical Max. SP Gravity (RICE)	1 per project location (or as specified by Construction Inspector, Project Engineer)
403 HMA	Air Voids	1 per mix design or as specified by Project Engineer, Construction Inspector (or as specified by contract)
403 HMA	Longitudinal Joint Density	1 per 5000 Linear FT. or fraction thereof.
601 Structural Concrete	Air Content, Slump, Unit Weight	1 per set (5) of cylinders per day. Or as specified by Project Engineer, Construction Inspector (or as specified Slump, Unit Weight by Contract).
601 Structural Concrete	Compressive Strength	1 set (5) per 200cu yds. or fraction thereof or as specified by Project Engineer, Construction Inspector (or as specified by Contract)
608 Sidewalk and Bikeways	Air Content, Slump, Unit Weight	1 per 1000 sq. yds. or fraction thereof. or as specified by Project Engineer, Construction Inspector (or as specified by Contract)

**Boulder County Transportation Minimum Guideline for Sampling and Testing
Final Version April 1, 2013**

Pay Item	Type of Test	Sampling & Testing Frequency
608 Sidewalk	Compressive Strength	1 set (5) of cylinders per 1000 sq. yd. or fraction thereof. and Bikeways as specified by Project Engineer, Construction Inspector (or as specified by Contract)
609 Curb and Gutter	Air Content, Slump, Unit Weight	1 per 2000 lin. ft. or fraction thereof.
609 Curb and Gutter	Compressive Strength	1 set (5) of cylinders per 2000 lin. ft. or fraction thereof.

This document will be used as a general guideline and may be modified for specific projects or site conditions or the contract document requirements are greater than minimum testing guidelines.