

2016 LABORATORY TESTS

AGGREGATE AND ROCK TESTING

Aggregate Tests	Accredited Test Procedure Designations
Aggregate Durability Index (ASTM D3744)	
Atterberg Limits (LL, PL, and PI), Method B (1-point)	D4318/T89 and 90
Clay Lumps and Friable Particles (per procedure grading)	C142/T112
Density (unit weight) and Voids	C29/T19
Direct Shear (CU Test) 3-Point Envelope (includes specimen remolding)	T236
Direct Shear (CU Test) 3-Point Envelope (includes Proctor and specimen remolding)	T236
Fine Aggregate Angularity (uncompacted void content)	C1252/T304
Flat and Elongated Particles (per procedure grading)	D4791
Fractured Faces (per procedure grading)	D5821/T335
Freezing/Thawing of Aggregate (AASHTO T103), 50 cycles	
Gradation with Minus #200 Wash	D75, C702, C136 and 117/T27, 11, T2, and T248
Gradation with Minus #200 Wash - Pit Run	D75, C702, C136 and 117/T27, 11, T2, and T248
Hydrometer (includes Gradation and Minus #200 Wash and Specific Gravity)	
Lightweight Particles	
Los Angeles Abrasion	C131/T96
Los Angeles Abrasion (ASTM C535)	
Micro-Deval Abrasion	
Minus #200 Wash	C117/T11
Moisture Content	C566/T255
Moisture/Density Relationship (Proctor)	D4718, D698 and 1557/T99, 180, and T224
Organic Impurities	C40/T21
Potential Alkali Reactivity (Mortar Bar Method)	C1260
Potential Alkali Reactivity (Mortar Bar Method)-Combinations of cementitious materials and aggregate	C1567
FAA Modified ASTM C1260	
FAA Modified ASTM C1567	
Relative Density (maximum/minimum; wet or dry method)	
Riprap Wetting/Drying (ASTM D5313)	
Riprap Freezing/Thawing (ASTM D5312), 35 cycles	
R-Value	D2844/T190
Sand Equivalency	D2419/T176
Sodium/Magnesium Sulfate Soundness (per procedure grading)	C88/T104
Specific Gravity and Absorption	C127 and 128/T85 and 84
Compressive Strength of Rock Cores (ASTM D7012)	
Compressive Strength of Rock Cores with stress/strain	