

#### SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

### RINER ENGINEERING, INC. 4641 Kennedy Commerce Drive Houston, TX 77032

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Valid To: August 31, 2024 Certificate Number: 2718.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory for:

#### CONSTRUCTION MATERIALS ENGINEERING

ASTM: C1077 (Standard Practice for Agencies Testing Concrete and Concrete Aggregates for Use in

Construction and Criteria for Testing Agency Evaluation) [Concrete and Aggregate] D3666 (Standard Specification for Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials);

D3740 (Standard Practice for Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction);

E329 (Standard Specification for Agencies Engaged in Construction Inspection, Testing, or

Special Inspection) [Testing-Concrete, Soils, Asphalt, Aggregate]

#### CONSTRUCTION MATERIALS TESTING

<b>Test Method:</b>	Test Description:
Aggregates:	
ASTM C29	Bulk Density ("Unit Weight") and Voids in Aggregate
ASTM C117	Materials Finer than 75-μm (No. 200) Sieve in Mineral Aggregates by Washing
ASTM C127	Density, Relative Density (Specific Gravity), and Absorption of Coarse Aggregate
ASTM C128	Density, Relative Density (Specific Gravity), and Absorption of Fine Aggregate
ASTM C136	Sieve Analysis of Fine and Coarse Aggregates
ASTM C566	Total Evaporable Moisture Content of Aggregate by Drying
ASTM C702	Reducing Samples of Aggregate to Testing Size
ASTM D75 <sup>1</sup>	Sampling Aggregates
Tex-400-A <sup>1</sup>	Sampling Flexible Base, Stone, Gravel, Sand, and Mineral Aggregate
Tex-401-A	Sieve Analysis of Fine and Coarse Aggregate
Tex-403-A	Saturated Surface-Dry Specific Gravity and Absorption of Aggregates
Tex-404-A	Determining Unit Mass (Weight) of Aggregates
Tex-406-A	Material Finer Than 75 μm (No. 200) Sieve in Mineral Aggregates (Decantation Test for Concrete Aggregates)
Tex-409-A	Free Moisture and Water Absorption in Aggregate for Concrete

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ASTM D2726 Bulk Specific Gravity and Density of Non-Absorptive Compacted Bituminous Mixtures  ASTM D2950/D2950¹ Density of Bituminous Concrete in Place by Nuclear Methods  ASTM D3549 (Method A only)¹ Specimens ASTM D5361¹ Sampling Compacted Bituminous Mixtures for Laboratory Testing  ASTM D6307 Asphalt Content of Hot-Mix Asphalt by Ignition Method  Tex-201-F Bulk Specific Gravity and Water Absorption of Aggregate  Tex-206-F Compacting Specimens Using the Texas Gyratory Compactor (TGC)  Tex-207-F (Part VI, VII and VII)  Tex-208-F Test for Stabilometer Value of Bituminous Mixtures  Tex-227-F Theoretical Maximum Specific Gravity of Bituminous Mixtures  Tex-236-F Determining Asphalt Content from Asphalt Paving Mixtures by the Ignition Method  Concrete:  ASTM C39/C39M Compressive Strength of Cylindrical Concrete Specimens  ASTM C42/C42M Obtaining and Testing Drilled Cores and Sawed Beams of Concrete  ASTM C78/C78M¹ Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading) Density (Unit Weight), Yield, and Air Content (Gravimetric) of Conc ASTM C138/C138M¹ Density (Unit Weight), Yield, and Air Content (Gravimetric) of Conc ASTM C13/C2172M¹ ASTM C172/C172M¹ Asir Content of Freshly Mixed Concrete  ASTM C172/C172M¹ Asir Content of Freshly Mixed Concrete by the Volumetric Method  ASTM C29/C293M Flexural Strength of Concrete Test Specimens in the Laboratory  ASTM C29/C293M Flexural Strength of Concrete Test Specimens in the Laboratory  ASTM C29/C293M Flexural Strength of Concrete Test Specimens in the Laboratory  ASTM C29/C293M Flexural Strength of Concrete Test Specimens in the Laboratory  ASTM C29/C293M Flexural Strength of Concrete Specimens  Flexural Strength of Concrete (Using Simple Beam With Center-Poin Loading)  ASTM C1064/C1064M¹ Temperature of Freshly Mixed Hydraulic-Cement Concrete	Test Method:	Test Description:
ASTM D9791 Resistance to Deformation and Cohesion of Bituminous Mixtures by Means of Hveem Apparatus  ASTM D2041 Theoretical Maximum Specific Gravity and Density of Bituminous Province of Mixtures  ASTM D2726 Bulk Specific Gravity and Density of Non-Absorptive Compacted Bituminous Mixtures  ASTM D2950/D2950¹ Density of Bituminous Concrete in Place by Nuclear Methods  ASTM D3549 Chembra of Thickness or Height of Compacted Bituminous Paving Mixture  Specimens  ASTM D3530¹ Sampling Compacted Bituminous Mixtures for Laboratory Testing  ASTM D6307 Asphalt Content of Hot-Mix Asphalt by Ignition Method  Tex-201-F Bulk Specific Gravity and Water Absorption of Aggregate  Tex-206-F Compacting Specimens Using the Texas Gyratory Compactor (TGC)  Tex-207-F (Part VI, VII and VII)  Tex-208-F Test for Stabilometer Value of Bituminous Mixtures  Tex-236-F Determining Density of Compacted Bituminous Mixtures  Tex-236-F User of Stabilometer Value of Bituminous Mixtures  Tex-236-F Determining Apphalt Content from Asphalt Paving Mixtures by the Ignition Method  Concrete:  ASTM C31/C31M¹ Making and Curing Concrete Test Specimens in the Field  ASTM C39/C39M Compressive Strength of Cylindrical Concrete Specimens  ASTM C42/C42M Obtaining and Testing Drilled Cores and Sawed Beams of Concrete  ASTM C138/C138M¹ Density (Unit Weight), Yield, and Air Content (Gravimetric) of Conc ASTM C143/C143M¹ Sampling Freshly Mixed Concrete  ASTM C138/C138M¹ Density (Unit Weight), Yield, and Air Content (Gravimetric) of Conc ASTM C192/C192M Air Content of Freshly Mixed Concrete by the Volumetric Method  ASTM C192/C23IM¹ Air Content of Freshly Mixed Concrete by the Pressure Method  ASTM C231/C231M¹ Air Content of Freshly Mixed Concrete by the Pressure Method  ASTM C193/C231M¹ Air Content of Freshly Mixed Concrete by the Pressure Method  ASTM C193/C231M¹ Air Content of Freshly Mixed Concrete by the Pressure Method  ASTM C193/C231M¹ Air Content of Freshly Mixed Concrete by the Pressure Method  Flex.415-A¹ Sampling Freshly Mixed Concrete by the Pressure Meth	Bituminous:	
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Bituminous Mixtures  ASTM D2950/D2950¹ Density of Bituminous Concrete in Place by Nuclear Methods  ASTM D3549  (Method A only)¹ Specimens  ASTM D3361¹ Sampling Compacted Bituminous Mixtures for Laboratory Testing  ASTM D3361¹ Sampling Compacted Bituminous Mixtures for Laboratory Testing  ASTM D3361¹ Sampling Compacted Bituminous Mixtures for Laboratory Testing  ASTM D3361¹ Sampling Compacted Bituminous Mixtures for Laboratory Testing  ASTM D3307 Asphalt Content of Hot-Mix Asphalt by Ignition Method  Tcx-201-F Bulk Specific Gravity and Water Absorption of Aggregate  Tcx-206-F Compacting Specimens Using the Texas Gyratory Compactor (TGC)  Tcx-207-F (Part VI, VII and VII)  Tcx-208-F Test for Stabilometer Value of Bituminous Mixtures  Tcx-227-F Theoretical Maximum Specific Gravity of Bituminous Mixtures  Tcx-236-F Determining Asphalt Content from Asphalt Paving Mixtures by the Ignition Method  Concrete:  ASTM C31/C31M¹ Making and Curing Concrete Test Specimens in the Field  ASTM C39/C39M Compressive Strength of Cylindrical Concrete Specimens  ASTM C42/C42M Obtaining and Testing Drilled Cores and Sawed Beams of Concrete  ASTM C78/C78M¹ Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)  ASTM C138/C138M¹ Density (Unit Weight), Yield, and Air Content (Gravimetric) of Conc  ASTM C143/C143M¹ Slump of Hydraulic-Cement Concrete  ASTM C172/C172M¹ Sampling Freshly Mixed Concrete by the Volumetric Method  ASTM C192/C192M Making and Curing Concrete Test Specimens in the Laboratory  ASTM C192/C192M Making and Curing Concrete Test Specimens in the Laboratory  ASTM C231/C231M¹ Air Content of Freshly Mixed Concrete by the Pressure Method  ASTM C192/C192M Making and Curing Concrete Test Specimens on the Laboratory  ASTM C192/C192M Making and Curing Concrete Test Specimens on the Laboratory  ASTM C192/C192M Making and Curing Concrete Test Specimens on the Laboratory  ASTM C194/C1951M¹ Air Content of Freshly Mixed Concrete by the Pressure Method  Tex-410-A¹ Sump of Hydraulic-Cement Concrete  Tex-410-A¹ Air Co	ASTM D2041	Theoretical Maximum Specific Gravity and Density of Bituminous Paving
ASTM D3549   Thickness or Height of Compacted Bituminous Paving Mixture Specimens   Specimens	ASTM D2726	
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Tex-227-F Tex-236-F Tex-236-F Determining Asphalt Content from Asphalt Paving Mixtures by the Ignition Method  Concrete:  ASTM C31/C31M¹ Making and Curing Concrete Test Specimens in the Field ASTM C39/C39M Compressive Strength of Cylindrical Concrete Specimens ASTM C42/C42M Obtaining and Testing Drilled Cores and Sawed Beams of Concrete ASTM C78/C78M¹ Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)  ASTM C138/C138M¹ Density (Unit Weight), Yield, and Air Content (Gravimetric) of Conc ASTM C143/C143M¹ Slump of Hydraulic-Cement Concrete ASTM C172/C172M¹ Sampling Freshly Mixed Concrete ASTM C173¹ Air Content of Freshly Mixed Concrete by the Volumetric Method ASTM C192/C192M Making and Curing Concrete Test Specimens in the Laboratory ASTM C231/C231M¹ Air Content of Freshly Mixed Concrete by the Pressure Method ASTM C293/C293M Flexural Strength of Concrete (Using Simple Beam With Center-Poin Loading)  ASTM C617 Capping Cylindrical Concrete Specimens  ASTM C1064/C1064M¹ Temperature of Freshly Mixed Hydraulic-Cement Concrete  Tex-407-A¹ Sampling Freshly Mixed Concrete Tex-414-A¹ Air Content of Freshly Mixed Concrete by the Volumetric Method Tex-415-A¹ Slump of Hydraulic Cement Concrete Tex-416-A¹ Air Content of Freshly Mixed Concrete by the Volumetric Method Tex-417-A¹ Slump of Hydraulic Cement Concrete Tex-418-A Compressive Strength of Cylindrical Concrete by the Pressure Method Tex-418-A Content of Freshly Mixed Concrete by the Pressure Method Tex-418-A Compressive Strength of Cylindrical Concrete Specimens Tex-422-A Measuring Temperature of Freshly Mixed Portland Cement Concrete		Test for Stabilometer Value of Bituminous Mixtures
Tex-236-F  Determining Asphalt Content from Asphalt Paving Mixtures by the Ignition Method  Concrete:  ASTM C31/C31M¹  ASTM C39/C39M  Compressive Strength of Cylindrical Concrete Specimens  ASTM C42/C42M  Obtaining and Testing Drilled Cores and Sawed Beams of Concrete  ASTM C78/C78M¹  Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)  ASTM C138/C138M¹  Density (Unit Weight), Yield, and Air Content (Gravimetric) of Conce  ASTM C13/C143M¹  Slump of Hydraulic-Cement Concrete  ASTM C172/C172M¹  Sampling Freshly Mixed Concrete by the Volumetric Method  ASTM C192/C192M  Air Content of Freshly Mixed Concrete by the Pressure Method  ASTM C231/C231M¹  Air Content of Freshly Mixed Concrete by the Pressure Method  ASTM C293/C293M  Flexural Strength of Concrete (Using Simple Beam With Center-Poin Loading)  ASTM C617  Capping Cylindrical Concrete Specimens  ASTM C1064/C1064M¹  Temperature of Freshly Mixed Hydraulic-Cement Concrete  Tex-407-A¹  Sampling Freshly Mixed Concrete by the Volumetric Method  Tex-414-A¹  Air Content of Freshly Mixed Hydraulic-Cement Concrete  Tex-414-A¹  Air Content of Freshly Mixed Concrete by the Volumetric Method  Tex-415-A¹  Slump of Hydraulic Cement Concrete  Tex-416-A¹  Air Content of Freshly Mixed Concrete by the Volumetric Method  Tex-416-A¹  Air Content of Freshly Mixed Concrete by the Pressure Method  Tex-417-A¹  Unit Weight, Yield, and Air Content (Gravimetric) of Concrete  Tex-418-A  Compressive Strength of Cylindrical Concrete Specimens  Tex-422-A  Measuring Temperature of Freshly Mixed Portland Cement Concrete		
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ASTM C42/C42M  Obtaining and Testing Drilled Cores and Sawed Beams of Concrete  ASTM C78/C78M¹  Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)  ASTM C138/C138M¹  Density (Unit Weight), Yield, and Air Content (Gravimetric) of Conc ASTM C143/C143M¹  Slump of Hydraulic-Cement Concrete  ASTM C172/C172M¹  Sampling Freshly Mixed Concrete  ASTM C192/C192M  ASTM C192/C192M  ASTM C231/C231M¹  Air Content of Freshly Mixed Concrete by the Volumetric Method  ASTM C293/C293M  Flexural Strength of Concrete (Using Simple Beam With Center-Poin Loading)  ASTM C617  Capping Cylindrical Concrete Specimens  ASTM C1064/C1064M¹  Temperature of Freshly Mixed Hydraulic-Cement Concrete  ASTM C1231/C1231M  Unbonded Caps in Determination of Compressive Strength of Harden Concrete Cylinders  Tex-407-A¹  Sampling Freshly Mixed Concrete  Tex-414-A¹  Air Content of Freshly Mixed Concrete by the Volumetric Method  Tex-415-A¹  Slump of Hydraulic Cement Concrete  Tex-416-A¹  Air Content of Freshly Mixed Concrete by the Pressure Method  Tex-417-A¹  Unit Weight, Yield, and Air Content (Gravimetric) of Concrete  Tex-418-A  Compressive Strength of Cylindrical Concrete Specimens  Tex-422-A  Measuring Temperature of Freshly Mixed Portland Cement Concrete		
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ASTM C173 <sup>1</sup> Air Content of Freshly Mixed Concrete by the Volumetric Method ASTM C192/C192M Making and Curing Concrete Test Specimens in the Laboratory ASTM C231/C231M <sup>1</sup> Air Content of Freshly Mixed Concrete by the Pressure Method ASTM C293/C293M Flexural Strength of Concrete (Using Simple Beam With Center-Poin Loading)  ASTM C617 Capping Cylindrical Concrete Specimens ASTM C1064/C1064M <sup>1</sup> Temperature of Freshly Mixed Hydraulic-Cement Concrete ASTM C1231/C1231M Unbonded Caps in Determination of Compressive Strength of Harden Concrete Cylinders  Tex-407-A <sup>1</sup> Sampling Freshly Mixed Concrete Tex-414-A <sup>1</sup> Air Content of Freshly Mixed Concrete by the Volumetric Method Tex-415-A <sup>1</sup> Slump of Hydraulic Cement Concrete Tex-416-A <sup>1</sup> Air Content of Freshly Mixed Concrete by the Pressure Method Tex-417-A <sup>1</sup> Unit Weight, Yield, and Air Content (Gravimetric) of Concrete Tex-418-A Compressive Strength of Cylindrical Concrete Specimens Tex-422-A Measuring Temperature of Freshly Mixed Portland Cement Concrete		
ASTM C192/C192M  ASTM C231/C231M¹  Air Content of Freshly Mixed Concrete by the Pressure Method  Flexural Strength of Concrete (Using Simple Beam With Center-Poin Loading)  ASTM C293/C293M  Flexural Strength of Concrete (Using Simple Beam With Center-Poin Loading)  ASTM C617  Capping Cylindrical Concrete Specimens  ASTM C1064/C1064M¹  Temperature of Freshly Mixed Hydraulic-Cement Concrete  Unbonded Caps in Determination of Compressive Strength of Harden Concrete Cylinders  Tex-407-A¹  Sampling Freshly Mixed Concrete  Tex-414-A¹  Air Content of Freshly Mixed Concrete by the Volumetric Method  Tex-415-A¹  Slump of Hydraulic Cement Concrete  Tex-416-A¹  Air Content of Freshly Mixed Concrete by the Pressure Method  Unit Weight, Yield, and Air Content (Gravimetric) of Concrete  Tex-418-A  Compressive Strength of Cylindrical Concrete Specimens  Tex-422-A  Measuring Temperature of Freshly Mixed Portland Cement Concrete		
ASTM C231/C231M <sup>1</sup> Air Content of Freshly Mixed Concrete by the Pressure Method Flexural Strength of Concrete (Using Simple Beam With Center-Poin Loading)  ASTM C617 Capping Cylindrical Concrete Specimens  ASTM C1064/C1064M <sup>1</sup> Temperature of Freshly Mixed Hydraulic-Cement Concrete Unbonded Caps in Determination of Compressive Strength of Harden Concrete Cylinders  Tex-407-A <sup>1</sup> Sampling Freshly Mixed Concrete  Tex-414-A <sup>1</sup> Air Content of Freshly Mixed Concrete by the Volumetric Method  Tex-415-A <sup>1</sup> Slump of Hydraulic Cement Concrete  Tex-416-A <sup>1</sup> Air Content of Freshly Mixed Concrete by the Pressure Method  Tex-417-A <sup>1</sup> Unit Weight, Yield, and Air Content (Gravimetric) of Concrete  Tex-418-A Compressive Strength of Cylindrical Concrete Specimens  Tex-422-A Measuring Temperature of Freshly Mixed Portland Cement Concrete		
ASTM C293/C293M  Flexural Strength of Concrete (Using Simple Beam With Center-Poin Loading)  ASTM C617  Capping Cylindrical Concrete Specimens  ASTM C1064/C1064M <sup>1</sup> Temperature of Freshly Mixed Hydraulic-Cement Concrete  Unbonded Caps in Determination of Compressive Strength of Harden Concrete Cylinders  Tex-407-A <sup>1</sup> Sampling Freshly Mixed Concrete  Tex-414-A <sup>1</sup> Air Content of Freshly Mixed Concrete by the Volumetric Method  Tex-415-A <sup>1</sup> Slump of Hydraulic Cement Concrete  Tex-416-A <sup>1</sup> Air Content of Freshly Mixed Concrete by the Pressure Method  Tex-417-A <sup>1</sup> Unit Weight, Yield, and Air Content (Gravimetric) of Concrete  Tex-418-A  Compressive Strength of Cylindrical Concrete Specimens  Measuring Temperature of Freshly Mixed Portland Cement Concrete		
ASTM C617  Capping Cylindrical Concrete Specimens  ASTM C1064/C1064M <sup>1</sup> Temperature of Freshly Mixed Hydraulic-Cement Concrete  Unbonded Caps in Determination of Compressive Strength of Harden Concrete Cylinders  Tex-407-A <sup>1</sup> Sampling Freshly Mixed Concrete  Tex-414-A <sup>1</sup> Air Content of Freshly Mixed Concrete by the Volumetric Method  Tex-415-A <sup>1</sup> Slump of Hydraulic Cement Concrete  Tex-416-A <sup>1</sup> Air Content of Freshly Mixed Concrete by the Pressure Method  Tex-417-A <sup>1</sup> Unit Weight, Yield, and Air Content (Gravimetric) of Concrete  Tex-418-A  Compressive Strength of Cylindrical Concrete Specimens  Measuring Temperature of Freshly Mixed Portland Cement Concrete		Flexural Strength of Concrete (Using Simple Beam With Center-Point
ASTM C1064/C1064M <sup>1</sup> ASTM C1231/C1231M  Unbonded Caps in Determination of Compressive Strength of Harden Concrete Cylinders  Tex-407-A <sup>1</sup> Sampling Freshly Mixed Concrete  Tex-414-A <sup>1</sup> Air Content of Freshly Mixed Concrete by the Volumetric Method  Tex-415-A <sup>1</sup> Slump of Hydraulic Cement Concrete  Tex-416-A <sup>1</sup> Air Content of Freshly Mixed Concrete by the Pressure Method  Tex-417-A <sup>1</sup> Unit Weight, Yield, and Air Content (Gravimetric) of Concrete  Tex-418-A  Compressive Strength of Cylindrical Concrete Specimens  Measuring Temperature of Freshly Mixed Portland Cement Concrete	ASTM C617	
Concrete Cylinders  Tex-407-A <sup>1</sup> Sampling Freshly Mixed Concrete  Tex-414-A <sup>1</sup> Air Content of Freshly Mixed Concrete by the Volumetric Method  Tex-415-A <sup>1</sup> Slump of Hydraulic Cement Concrete  Tex-416-A <sup>1</sup> Air Content of Freshly Mixed Concrete by the Pressure Method  Tex-417-A <sup>1</sup> Unit Weight, Yield, and Air Content (Gravimetric) of Concrete  Tex-418-A Compressive Strength of Cylindrical Concrete Specimens  Tex-422-A Measuring Temperature of Freshly Mixed Portland Cement Concrete		
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Tex-414-A1Air Content of Freshly Mixed Concrete by the Volumetric MethodTex-415-A1Slump of Hydraulic Cement ConcreteTex-416-A1Air Content of Freshly Mixed Concrete by the Pressure MethodTex-417-A1Unit Weight, Yield, and Air Content (Gravimetric) of ConcreteTex-418-ACompressive Strength of Cylindrical Concrete SpecimensTex-422-AMeasuring Temperature of Freshly Mixed Portland Cement Concrete	Tex-407-A <sup>1</sup>	Sampling Freshly Mixed Concrete
Tex-415-A1Slump of Hydraulic Cement ConcreteTex-416-A1Air Content of Freshly Mixed Concrete by the Pressure MethodTex-417-A1Unit Weight, Yield, and Air Content (Gravimetric) of ConcreteTex-418-ACompressive Strength of Cylindrical Concrete SpecimensTex-422-AMeasuring Temperature of Freshly Mixed Portland Cement Concrete		Air Content of Freshly Mixed Concrete by the Volumetric Method
Tex-417-A1Unit Weight, Yield, and Air Content (Gravimetric) of ConcreteTex-418-ACompressive Strength of Cylindrical Concrete SpecimensTex-422-AMeasuring Temperature of Freshly Mixed Portland Cement Concrete	Tex-415-A <sup>1</sup>	Slump of Hydraulic Cement Concrete
Tex-418-A Compressive Strength of Cylindrical Concrete Specimens Tex-422-A Measuring Temperature of Freshly Mixed Portland Cement Concrete		
Tex-422-A Measuring Temperature of Freshly Mixed Portland Cement Concrete		
Tex-450-A Capping Cylindrical Concrete Specimens		
	Tex-450-A	Capping Cylindrical Concrete Specimens

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Test Method:	Test Description:
Fireproofing:	
ASTM E605 <sup>1</sup>	Thickness and Density of Sprayed Fire-Resistive Material (SFRM) Applied to Structural Members
Masonry:	
ASTM C780 (Annex 6 Only) <sup>1</sup>	Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry
ASTM C1019 <sup>1</sup>	Sampling and Testing Grout
Tex-442-A	Determining Compressive Strength of Grouts
Soils:	
ASTM D558	Moisture-Density (Unit Weight) Relations of Soil-Cement Mixtures
ASTM D698	Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft3 (600 kN-m/m3))
ASTM D854	Specific Gravity of Soil Solids by Water Pycnometer
ASTM D834 ASTM D1140	Determining the Amount of Material Finer than 75-µm (No. 200) Sieve in Soils by Washing
ASTM D1557	Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft3 (2,700 kN-m/m3))
ASTM D1633	Compressive Strength of Molded Soil-Cement Cylinders
ASTM D1883	CBR (California Bearing Ratio) of Laboratory-Compacted Soils
ASTM D2216	Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass
ASTM D2487	Classification of Soils for Engineering Purposes Classification of Soils for Engineering Purposes (Unified Soil Classification System)
ASTM D2488 <sup>1</sup>	Description and Identification of Soils (Visual-Manual Procedures)
ASTM D3282	Classification of Soils and Soil-Aggregate Mixtures for Highway Construction Purposes
ASTM D4318	Liquid Limit, Plastic Limit, and Plasticity Index of Soils
ASTM D4718	Unit Weight and Water Content for Soils Containing Oversize Particles
ASTM D4972	pH of Soils
ASTM D6913	Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis
ASTM D6938 <sup>1</sup>	In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)
ASTM D7928	Standard Test Method for Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis
ASTM G57	Method for Measurement of Soil Resistivity Using the Wenner Four- Electrode Method
ASTM G187	Method for Measurement of Soil Resistivity Using the Two-Electrode Soil Box Method
Tex-103-E	Determining Moisture Content in Soil Materials
Tex-104-E	Determining Liquid Limits of Soils
Tex-105-E	Determining Plastic Limit of Soils
Tex-106-E	Calculating the Plasticity Index of Soils
Tex-108-E	Determining the Specific Gravity of Soils
Tex-110-E	Particle Size Analysis of Soils
Tex-111-E	Determining the Amount of Material in Soils Finer than the 75 μm (No. 200) Sieve

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Test Method:	Test Description:
Steel (Shop & Field) 1:	
AWS D1.1 <sup>1</sup>	Structural Welding Code - Sheet Steel (Clause 6 Inspection)
AISC 360 <sup>1</sup>	Specification for Structural Steel Buildings (Chapter N, Section 16.1, N5,
	6 QA/QC Fabrication & Erection)
RCSC <sup>1</sup>	Specification for Structural Joints Using High-Strength Bolts (Section 9,
	Inspection)
ASTM E797, E164, E587 and	Ultrasonic Thickness Testing - Contact Straight Beam, Contact Angled
AWS D1.1 (Chapter 6)	Beam

<sup>&</sup>lt;sup>1</sup> This laboratory performs field testing activities for these tests.





# **Accredited Laboratory**

A2LA has accredited

## RINER ENGINEERING, INC.

Houston, TX

for technical competence in the field of

### Construction Materials Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 14th day of July 2022.

Mr. Trace McInturff, Vice President, Accreditation Services For the Accreditation Council

Certificate Number 2718.01 Valid to August 31, 2024