

**FORM A: Category 1 – Construction Materials Testing – Testing, Procedures, and Laboratory Accreditation Checklist**

Circle each testing procedure that the firm is accredited in (Table 1) and check each box in the far right column (Tables 2–7) to indicate the firm’s accreditation.

**Table 1. Laboratory Accreditation**

<b>LABORATORY ACCREDITATION</b> (Circle all that apply)	
<b>ASTM</b>	<b>Specify YES or NO if Laboratory is Accredited</b>
E329	YES / NO
D3740	YES / NO
C1077	YES / NO
D3666	YES / NO
Active TxDOT Precertified (Asphaltic Concrete)	YES / NO

**Table 2. SOIL TESTS and PROCEDURES**

<b>ASTM</b>	<b>AASHTO</b>	<b>TxDOT</b>	<b>TITLE</b>	<b>Check Box if Accredited</b>
D421	T87	Tex-101-E	Practice for Dry Preparation of Soil Samples for Particle-Size Analysis and Determination of Soil Constants	
D422	T88	Tex-110-E	Test Method for Particle-Size Analysis of Soils	
D698	T99	Tex-113-E	*Laboratory Compaction Characteristics and Moisture-Density Relationship of Base Materials and Cohesionless sand	
D698	T99	Tex-114-E	*Laboratory Compaction Characteristics and Moisture-Density Relationship of Subgrade & Embankment Soils	
D1140	T11	Tex-111-E	*Determination of Amount of Material in Soils Finer Than the 75- $\mu$ m (No. 200) Sieve	
D2216	T265	Tex-103-E	*Determination of Moisture Content in Soil Materials	
D1557	T180		Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 lbf/ft <sup>3</sup> (2,700 kN/-m <sup>3</sup> ))	
D2217	T146	Tex-101-E	Practice for Wet Preparation of Soil Samples for Particle-Size Analysis and Determination of Soil Constants	
D2487		Tex-142-E	Classification of Soils for Engineering Purposes (Unified Soil Classification System)	
D2488		Tex-141-E	Practice for Description and Identification of Soils (Visual-Manual Procedure)	

**Table 2. SOIL TESTS and PROCEDURES (continued)**

D2922	T238	Tex-115-E Part II	Test Methods for Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth)	
D3017	T239	Tex-115-E Part II	Test Method for Water Content of Soil and Rock in Place by Nuclear Methods (Shallow Depth)	
D4318	T89	Tex-104-E	*Determination of Liquid Limit of Soils	
D4318	T90	Tex-105-E	*Determination of Plastic Limit of Soils	
D4318	T90	Tex-106-E	*Method of Calculating the Plasticity Index of Soils	
		Tex-121-E	*Soil Lime Compression Test	

\*Title from TxDOT Manual; others titles from ASTM Standards

**Table 3. CONCRETE TESTS and PROCEDURES**

ASTM	AASHTO	TxDOT	TITLE	Check Box if Accredited
C31	T23	Tex-447-A	Practice for Making and Curing Concrete Test Specimens in the Field	
C39	T22	Tex-418-A	Test Method for Compressive Strength of Cylindrical Concrete Specimens	
C78	T97	Tex-448-A	Test Method for Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	
C138	T121	Tex-417-A	Test Method for Unit Weight, Yield, and Air Content (Gravimetric) of Concrete	
C143	T119	Tex-415-A	Test Method for Slump of Hydraulic Cement Concrete	
C172	T141	Tex-407-A	Practice for Sampling Freshly Mixed Concrete	
C231	T152	Tex-416-A	Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method	
C617	T231	Tex-450-A	Practice for Capping Cylindrical Concrete Specimens	
C1064		Tex-422-A	Test Method for Temperature of Freshly Mixed Portland Cement Concrete	

**Table 4. ASPHALTIC MATERIAL TESTS and PROCEDURES**

ASTM	AASHTO	TxDOT	TITLE	Check Box if Accredited
D4318	T90	Tex-106-E	*Method of Calculating the Plasticity Index of Soils	
		Tex-107-E	*Determination of Bar Linear Shrinkage of Soils	
		Tex-200-F	*Sieve Analysis of Fine and Coarse Aggregates	
D5	T49		Test Method for Penetration of Bituminous Materials	
D36	T53		Test Method for Softening Point of Bitumen (Ring-and-Ball Apparatus)	
D113	T51		Test Method for Ductility of Bituminous Materials	
D140	T40	Tex-222-F	Practice for Sampling Bituminous Materials	

**Table 4. ASPHALTIC MATERIAL TESTS and PROCEDURES (continued)**

D244	T59		Test Methods for Emulsified Asphalts	
D402	T78		Test Method for Distillation of Cut-Back Asphaltic (Bituminous) Products	
D1754	T179		Test Method for Effect of Heat and Air on Asphaltic Materials (Thin-Film Oven Test)	
D1856	T170	Tex-211-F	Test Method for Recovery of Asphalt From Solution by Abson Method	
D2170	T201		Test Method for Kinematic Viscosity of Asphalts (Bitumens)	
D2171	T202		Test Method for Viscosity of Asphalts by Vacuum Capillary Viscometer	
D3142	T227		Test Method for Density of Liquid asphalts (Hydrometer Method)	

\*Title from TxDOT Manual; others titles from ASTM Standards

**Table 5. ASPHALTIC MATERIAL TESTS and PROCEDURES**

ASTM	AASHTO	TxDOT	TITLE	Check Box if Accredited
D4318	T90	Tex-106-E	*Method of Calculating the Plasticity Index of Soils	
		Tex-107-E	*Determination of Bar Linear Shrinkage of Soils	
		Tex-200-F	*Sieve Analysis of Fine and Coarse Aggregates	
D5	T49		Test Method for Penetration of Bituminous Materials	
D36	T53		Test Method for Softening Point of Bitumen (Ring-and-Ball Apparatus)	
D113	T51		Test Method for Ductility of Bituminous Materials	
D140	T40	Tex-222-F	Practice for Sampling Bituminous Materials	
D244	T59		Test Methods for Emulsified Asphalts	
D402	T78		Test Method for Distillation of Cut-Back Asphaltic (Bituminous) Products	
D1754	T179		Test Method for Effect of Heat and Air on Asphaltic Materials (Thin-Film Oven Test)	
D1856	T170	Tex-211-F	Test Method for Recovery of Asphalt From Solution by Abson Method	
D2170	T201		Test Method for Kinematic Viscosity of Asphalts (Bitumens)	
D2171	T202		Test Method for Viscosity of Asphalts by Vacuum Capillary Viscometer	
D3142	T227		Test Method for Density of Liquid asphalts (Hydrometer Method)	

\*Title from TxDOT Manual; others titles from ASTM Standards

**Table 6. HOT MIX ASPHALT TESTS and PROCEDURES**

ASTM	AASHTO	TxDOT	TITLE	<i>Check Box if Accredited</i>
D979	T168	Tex-222-F	Practice for Sampling Bituminous Paving Mixtures	
D1560	T246	Tex-208-F	Test Methods for Resistance to Deformation and Cohesion of Bituminous Mixtures by Means of Hveem Apparatus	
D2041	T209	Tex-227-F	Test Method for Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures	
D2172	T164	Tex-210-F	Test Methods for Quantitative Extraction of Bitumen From Bituminous Paving Mixtures	
D2726	T166	Tex-207-F	Test Method for Bulk Specific Gravity and Density of Compacted Bituminous Mixtures Using Saturated Surface-Dry Specimens	
D3203	T269		Test Method for Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures	
D5444			Test Method for Mechanical Size Analysis of Test Extracted Aggregate	

**Table 7. Specialized Testing**

ASTM	AASHTO	TxDOT	TITLE	<i>Check Box if Accredited</i>
		Tex-116-E	Ball Mill Method for Determining the Disintegration of Flexible Base Material	
		Tex-117-E	Triaxial Compression for Disturbed Soils and Base Materials	