CERTIFICATE OF ACCREDITATION

This is to attest that

PACIFIC SOILS ENGINEERING & TESTING

894-C NORTH MARINE CORPS DRIVE
UPPER TUMON, 96913, GUAM

Testing Laboratory TL-386

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories.* This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date December 15, 2022

President

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.
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PACIFIC SOILS ENGINEERING & TESTING

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Accredited to ISO/IEC 17025:2017 *Effective Date December 15, 2022*

CMT	
AASHTO T 2	Standard practice for sampling aggregates
AASHTO T 11	Materials finer than 75-µm (no. 200) sieve in mineral aggregate by washing
AASHTO T 19	Bulk density (“unit weight”) & voids in aggregate
AASHTO T 21	Organic impurities in fine aggregates for concrete
AASHTO T 22	Compressive strength of cylindrical concrete specimens
AASHTO T 23	Making and curing concrete test specimens in the field
AASHTO T 24	Standard method of test for obtaining and testing drilled cores and sawed beams of concrete
AASHTO T 27	Sieve analysis of fine and coarse aggregates
AASHTO T 30	Mechanical analysis of extracted aggregate
AASHTO T 84	Specific gravity and absorption of fine aggregate
AASHTO T 85	Specific gravity and absorption of coarse aggregate
AASHTO T 89	Determining the liquid limit of soils
AASHTO T 90 and T 91	Standard method of test for determining the plastic limit and plasticity index of soils
AASHTO T 96	Resistance to degradation of small-size coarse aggregate by abrasion and impact in the Los Angeles machine
AASHTO T 99	Moisture-density relations of soils
AASHTO T 100	Standard method of test for specific gravity of soils
AASHTO T 104	Soundness of aggregate by use of sodium sulfate or magnesium sulfate
AASHTO T 112	Standard method of test for clay lumps and friable particles in aggregate
AASHTO T 113	Standard method of test for lightweight pieces in aggregate
AASHTO T 119	Standard test method for slump of hydraulic-cement concrete

AASHTO T 121	Density (unit weight), yield and air content (gravimetric) of concrete
AASHTO T 126	Standard method of test for making and curing concrete test specimens in laboratory
AASHTO T 141	Method of test for sampling freshly mixed concrete
AASHTO T 152	Air content of freshly mixed concrete by the pressure method
AASHTO T 166	Bulk specific gravity of compacted asphalt mixtures using saturated surface-dry specimens
AASHTO T 168	Sampling of bituminous paving mixtures
AASHTO T 176	Plastic fines in graded aggregates and soils by use of the sand equivalent test
AASHTO T 180	Standard method of test for moisture-density relations of soils using a 4.54-kg (10lb) rammer and a 457-mm (18-in.) drop
AASHTO T 191	Standard Method of Test for Density of Soil In-Place by the Sand-Cone Method
AASHTO T 193	Standard method of test for the California bearing ratio
AASHTO T 196	Air content of concrete (volumetric method)
AASHTO T 207	Standard test method of test for thin-walled tube sampling of soils
AASHTO T 209	Theoretical maximum specific gravity and density of hot mix asphalt
AASHTO T 231	Capping cylindrical concrete specimens
AASHTO T 245	Method of test for resistance to plastic flow of bituminous mixtures using Marshall apparatus
AASHTO T 248	Reducing samples of aggregate to testing size
AASHTO T 255	Total evaporable moisture content of aggregate by drying
AASHTO T 265	Laboratory determination of moisture content of soils
AASHTO T 269	Standard method of test for percent air voids in compacted dense open asphalt mixture
AASHTO T 275	Standard method of test for bulk specific gravity (GMB) of compacted hot mix asphalt (HMA) using paraffin-coated specimens
AASHTO T 308	Determining the asphalt binder content of hot mix asphalt (HMA) by the ignition method
AASHTO T 309	Standard method of test for temperature of freshly mixed Portland cement concrete
AASHTO T 310	In-place density and moisture content of soil and soil-aggregate by nuclear methods (shallow depth)
ASTM C29/C29M	Standard test method for bulk density (“unit weight”) and voids in aggregate

ASTM C31	Standard Practice for Making and Curing Concrete Test Specimens in the Field
ASTM C33/C33M	Standard specification for concrete aggregates
ASTM C39	Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens
ASTM C40	Standard Test Method for Organic Impurities in Fine Aggregates for Concrete
ASTM C42/C42M	Standard test method for obtaining and testing drilled cores and sawed beams of concrete
ASTM C70	Standard test method for surface moisture in fine aggregate
ASTM C78/C78M	Standard test method for flexural strength of concrete (using simple beam with third-point loading)
ASTM C88	Standard test method for soundness of aggregates by use of sodium sulfate or magnesium sulfate
ASTM C94/C94M	Standard specification for ready-mixed concrete
ASTM C117	Standard Test Method for Materials Finer than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing
ASTM C127	Standard Test Method for Relative Density (Specific Gravity) and Absorption of Coarse Aggregate
ASTM C128	Standard Test Method for Relative Density (Specific Gravity) and Absorption of Fine Aggregate
ASTM C131/C131M	Standard test method for resistance to degradation of small-size coarse aggregate by abrasion and impact in the Los Angeles machine
ASTM C136	Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates
ASTM C138	Standard Test Method for Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete
ASTM C142/C142M	Standard test method for clay lumps and friable particles in aggregates
ASTM C143	Standard Test Method for Slump of Hydraulic-Cement Concrete
ASTM C172	Standard Practice for Sampling Freshly Mixed Concrete
ASTM C173	Standard Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method
ASTM C174	Standard Test Method for Measuring Thickness of Concrete Elements Using Drilled Concrete Cores
ASTM C192/C192M	Standard practice for making and curing concrete test specimens in the laboratory
ASTM C231	Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method

ASTM C496	Standard test method for splitting tensile strength of cylindrical concrete specimens
ASTM C566	Standard test method for total evaporable moisture content of aggregate by drying
ASTM C567/C567M	Standard test method for determining density of structural lightweight concrete
ASTM C617	Standard Practice for Capping Cylindrical Concrete Specimens
ASTM C702/C702M	Standard practice for reducing samples of aggregate to testing size
ASTM C1064	Standard Test Method for Temperature of Freshly Mixed Hydraulic-Cement Concrete
ASTM C1077	Standard Practice for Agencies Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Testing Agency Evaluation
ASTM C1231/C1231M	Standard practice for use of un-bonded caps in determination of compressive strength of hardened cylindrical concrete specimens
ASTM C1252	Standard test methods for un- compacted void content of fine aggregate (as influenced by particle shape, surface texture, and grading)
ASTM D75	Standard practice for sampling aggregates
ASTM D290	Standard practice for bituminous mixing plant inspection
ASTM D420	Standard guide to site characterization for engineering design and construction purposes
ASTM D421	Standard practice for dry preparation of soil samples for particle-size analysis and determination of soil constants
ASTM D698	Standard test methods for laboratory compaction characteristics of soil using standard effort (12,400 ft-lbf/ ft^3 (600 kN-m/m^3))
ASTM D854	Standard test methods for specific gravity of soil solids by water pycnometer
ASTM D979/D979M	Standard practice for sampling bituminous paving mixtures
ASTM D1140	Standard test methods for determining the amount of material finer than 75-µm (no. 200) sieve in soils by washing
ASTM D1188	Standard test method for bulk specific gravity and density of compacted bituminous mixtures using coated samples
ASTM D1556	Standard test method for density and in place by the sand-cone method
ASTM D1557	Standard test methods for laboratory compaction characteristics of soil using modified effort (56,000 ft-lbf/ ft^3 (2,700 kN-m/m^3))
ASTM D1559	Test method for resistance of plastic flow of bituminous mixtures using Marshall apparatus

ASTM D1587/D1587M	Standard practice for thin-walled tube sampling of fine-grained soils for geotechnical purposes
ASTM D1833	Standard test method for California bearing ratio (CBR) of laboratory-compacted soils
ASTM D2041	Standard Test Method for Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures
ASTM D2216	Standard test methods for laboratory determination of water (moisture) content of soil and rock by mass
ASTM D2217	Standard practice for wet preparation of soil samples for particle-size analysis and determination of soil constants
ASTM D2419	Standard Test Method for Sand Equivalent Value of Soils and Fine Aggregate
ASTM D2487	Standard practice for classification of soils for engineering purposes (unified soil classification system)
ASTM D2488	Standard practice for description and identification of soils (visual-manual procedure)
ASTM D2726/D2726	Standard test method for bulk specific gravity and density of non-absorptive compacted bituminous mixtures
ASTM D2950/D2950M	Standard test method for density of bituminous concrete in place by nuclear
ASTM D3203/D3203M	Standard test method for percent air voids in compacted dene and open bituminous paving mixtures
ASTM D3282	Standard practice for classification of soils and soil-aggregate mixtures for highway construction purposes
ASTM D3666	Standard Specification for Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials
ASTM 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
ASTM D4318	Standard test methods for liquid limit, plastic limit, and plasticity index of soils
ASTM D4429	Standard test method for CBR (California bearing ratio) of soils in place
ASTM D4791	Standard test method for flat particles, elongated particles, or flat and elongated particles in coarse aggregate
ASTM D5821	Standard test method for determining the percentage of fractured particles in coarse aggregate
ASTM D6307	Standard test method for asphalt content of hot-mix asphalt by ignition method
ASTM D6926	Standard Practice for Preparation of Asphalt Mixture Specimens Using Marshall Apparatus

ASTM D6927	Standard Test Method for Marshall Stability and Flow of Asphalt Mixtures
ASTM D6938	Standard test method for in-place density and water content of soil and soil aggregate by nuclear methods (shallow depth)
ASTM E329	Test methods referenced under bituminous inspection and testing (limited to ASTM standards D2041, D3666, D6926 and D6927), under concrete inspection and testing (limited to ASTM standards C31, C39, C138, C143, C172, C173, C174, C231, C617, C642, C1064 and C1077), under masonry inspection and testing (limited to ASTM standards C1093 and C140-88), and under soils and rock inspection and testing (limited to ASTM standards C40, C117, C127, C128, C136, D75 and D2419)

AASHTO- The American Association of State Highway and Transportation Officials