
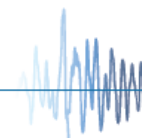




OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD PREAPPROVED LABORATORY (OPL)		For Office Use Only	
		Application #	OPL-0034-15
Name of Approved Agency/Laboratory Twining Consulting, Inc.	City Irvine	County Orange	State CA
APPLICATION TYPE / FEE			
Application is based on:	New Application Fee (Fees are Nonrefundable)	Renewal Fee (Fees are Nonrefundable)	
<input type="checkbox"/> DSA-LEA Approved Only	<input type="checkbox"/> \$250.00	<input type="checkbox"/> \$250.00	
<input type="checkbox"/> Accreditation Only	<input type="checkbox"/> \$500.00	<input type="checkbox"/> \$250.00	
<input checked="" type="checkbox"/> Both DSA-LEA Approved and Accreditation	<input checked="" type="checkbox"/> \$500.00	<input type="checkbox"/> \$250.00	
APPLICANT INFORMATION			
Applicant Name Benito Caban	Signature 	Position in the Organization Chief Operating Officer	
Agency/Laboratory Name Twining Consulting, Inc		Application Date 7-17-2015	
Phone Number (949) 553-0370		E-Mail bcaban@twiningconsulting.com	
Address of Facility Location (Each facility location requires separate application.)			
Street 18011 Sky Park Circle, Suite J			
City: Irvine	County Orange County	State: CA	Zip Code: 92614
Facility Mailing Address (If different from facility address above.)			
Street			
City:		State:	Zip Code:
KEY PERSONNEL (Attach additional pages if needed.)			
Engineering Manager (or equivalent) – Name Benito Caban	CA Registration Number 73220	Expiration Date 12-31-16	
Title in the Organization Chief Operating Office	Phone Number (858) 964-8002		
FAX Number (949) 553-0371	E-Mail bcaban@twiningconsulting.com		
Alternate to Engineering Manager (if any) – Name N/A	CA Registration Number	Expiration Date	
Title in the Organization	Phone Number		
FAX Number	E-mail		





**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION**

KEY PERSONNEL (Attach additional pages if needed.)

Laboratory Supervisor – Name Benito Caban	CA Registration Number (if any) 73220	Expiration Date 12-31-16
Title in the Organization Chief Operating Office	Phone Number (858) 964-8002	
FAX Number (949) 553-0371	E-Mail bcaban@twiningconsulting.com	
Field Supervisor – Name John Casabianca	CA Registration Number (if any) N/A	Expiration Date N/A
Title in the Organization Field Services Manager	Phone Number (949) 553-0370 ext 104	
FAX Number (949) 553-0371	E-mail jcasabianca@twiningconsulting.com	

ACCREDITATION

This laboratory currently holds accreditation by: (Attach a copy of current accreditation details.)

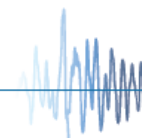
- | | |
|--|--|
| <input checked="" type="checkbox"/> AASHTO Accreditation Program (AAP) | <input type="checkbox"/> National Voluntary Laboratory Accreditation Program (NVLAP) |
| <input type="checkbox"/> International Accreditation Service (IAS) | <input type="checkbox"/> American Association of Laboratories Program (A2LA) |
| <input type="checkbox"/> Laboratory Accreditation Program (LAB) | <input type="checkbox"/> Construction Materials Engineering Council (CMEC) |
| <input type="checkbox"/> Other _____ | |

Latest Expiration Date (if any) _____

Is this laboratory accepted in the Division of the State Architect Laboratory Evaluation and Acceptance Program, DSA-LEA? ☐ No ☒ Yes Expiration Date: 4-15-2019

Basis for accreditation:

- ☐ ISO/IEC 17025: General requirements for competence of testing and calibration laboratories
- ☐ NISTIR 7012: Technical requirements for construction materials testing
- ☒ AASHTO R18: Standard Recommended Practice for Establishing and Implementing a Quality System for Construction Materials Testing Laboratories
- ☐ ASTM E 329: Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction
- ☐ ASTM C 1077: Practice for Laboratories Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Laboratory Evaluation
- ☐ ASTM D 3666: Specification for Minimum Requirements for Agencies Testing and Inspecting Bituminous Paving Materials
- ☐ ASTM D 3740: Practice for Evaluation of Agencies Engaged in Testing and/or Inspections of Soils and Rock as Used Engineering Design and Construction
- ☐ ASTM C 1093: Practice for Accreditation of Testing Agencies for Unit Masonry
- ☐ ASTM E 1212: Practice for Quality Management Systems for *Nondestructive Testing (NDT)* Agencies
- ☐ ASTM E 543: Specification for Agencies Performing *Nondestructive Testing (NDT)*





OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

STANDARDS

By checking "yes" in Tables 1 through 6 below, the applicant verifies that the laboratory has the equipment and qualified personnel to perform the indicated testing. **ONLY mark tests that are listed in accreditation certificate or DSA-LEA.**

1

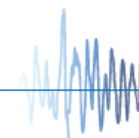
SOILS AND FOUNDATIONS

Tests

Yes	Standard	Test Procedure	Yes	Standard	Test Procedure
<input type="checkbox"/>	a. ASTM D 2487	Classification of Soils	<input type="checkbox"/>	b. ASTM D 422	Particle Size Analysts
<input type="checkbox"/>	c. ASTM D 2216	Moisture Content	<input type="checkbox"/>	d. ASTM D 4318	Liquid / Plastic Limit
<input type="checkbox"/>	e. ASTM D 2850	Unconsolidated, Undrained Triaxial	<input type="checkbox"/>	f. ASTM D 4767	Triaxial Compression
<input type="checkbox"/>	g. ASTM D 2166	Unconfined Compressive Strength	<input type="checkbox"/>	h. ASTM D 7012	Triaxial Compressive Strength of Rock Core Specimens
<input type="checkbox"/>	i. ASTM D 5778	Friction Cone and Pizcone Penetration Test	<input type="checkbox"/>	j. ASTM D 3441	Cone Penetration Test (CPT)
<input type="checkbox"/>	k. ASTM D 1140	No. 200 Wash	<input type="checkbox"/>	l. ASTM D 4829	Expansion Index
<input type="checkbox"/>	m. ASTM D 2419	Sand Equivalent Value	<input type="checkbox"/>	n. ASTM D 1557	Soil Compaction – Modified
<input type="checkbox"/>	o. ASTM D 3080	Direct Shear	<input type="checkbox"/>	p. ASTM D 6938	Density of Soils – Nuclear Gage
<input type="checkbox"/>	q. ASTM D 1556	Density of Soils – Sand Cone	<input type="checkbox"/>	r. ASTM D 1143	Deep Foundations – Static Compression
<input type="checkbox"/>	s. ASTM D 4945	Deep Foundations – Dynamic Testing	<input type="checkbox"/>	t. ASTM D 3689	Deep Foundations – Axial Tension
<input type="checkbox"/>	u. ASTM D 3966	Deep Foundations –Lateral Loads			

Tests that are in the lab's scope but are not listed above should be provided in the space(s) below.

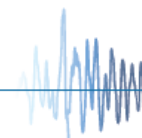
Yes	Standard	Test Procedure	Yes	Standard	Test Procedure
<input type="checkbox"/>	aa.		<input type="checkbox"/>	bb.	
<input type="checkbox"/>	cc.		<input type="checkbox"/>	dd.	
<input type="checkbox"/>	ee.		<input type="checkbox"/>	ff.	





**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION**

2 CONCRETE					
Tests					
Yes	Standard	Test Procedure	Yes	Standard	Test Procedure
<input type="checkbox"/>	a. ASTM D 75	Sampling Aggregate	<input type="checkbox"/>	b. ASTM C 702	Reducing Aggregate Samples
<input type="checkbox"/>	c. ASTM C 40	Organic Impurities	<input type="checkbox"/>	d. ASTM C 29	Unit Weight / Voids
<input type="checkbox"/>	e. ASTM C 88	Sodium Sulfate Soundness	<input type="checkbox"/>	f. ASTM C 566	Moisture Content
<input type="checkbox"/>	g. ASTM C 142	Clay / Friable Particles	<input type="checkbox"/>	h. ASTM C 127	Specific Gravity - Coarse
<input type="checkbox"/>	i. ASTM C 128	Specific Gravity - Fine	<input type="checkbox"/>	j. ASTM C 117	No. 200 Wash
<input type="checkbox"/>	k. ASTM C 136	Sieve Analysis Course / Fine	<input type="checkbox"/>	l. ASTM C 131	Degradation of Aggregate
<input type="checkbox"/>	m. ASTM 2419	Sand Equivalent Value	<input checked="" type="checkbox"/>	n. ASTM C 31, C 172, CBC 1905A.1.2	Concrete Sampling - Field
<input type="checkbox"/>	o. ASTM C 192	Making / Curing Specimens - Lab	<input checked="" type="checkbox"/>	p. ASTM C 173	Air Content (V)
<input type="checkbox"/>	q. ASTM C 1602	Water	<input type="checkbox"/>	r. ASTM C1604	Shotcrete Core
<input type="checkbox"/>	s. ACI 355.2	Mechanical Anchors	<input checked="" type="checkbox"/>	t. ASTM C 231	Air Content (P)
<input checked="" type="checkbox"/>	u. ASTM C 143	Slump	<input checked="" type="checkbox"/>	v. ASTM C 1064	Temperature
<input type="checkbox"/>	w. ASTM C 617	Capping Concrete Specimens	<input checked="" type="checkbox"/>	x. ASTM C 1231	Unbonded Caps
<input checked="" type="checkbox"/>	y. ASTM C 39	Compressive Strength	<input type="checkbox"/>	z. ASTM C 157	Length Change
<input type="checkbox"/>	aa. ASTM C 78	Flexural Strength	<input type="checkbox"/>	bb. ASTM C 496	Splitting Tensile
<input type="checkbox"/>	cc. ASTM C 42	Drilled Cores / Beams	<input checked="" type="checkbox"/>	dd. ASTM C 138	Weight / Yield / Air Content
<input type="checkbox"/>	ee. ASTM C 495	Lightweight Concrete	<input type="checkbox"/>	ff. ASTM C 567	Density of Lightweight Aggregate
<input type="checkbox"/>	gg. ASTM E 488	Strength of Anchors	<input type="checkbox"/>	hh. ACI 355.4	Adhesive Anchors
<input type="checkbox"/>	ii. ACI 374.1	Moment Frames	<input type="checkbox"/>	jj. ASTM C 1260	Alkali Reactivity of Aggregate
<input type="checkbox"/>	kk. ASTM C 1293	Length Change due to Alkali-Silica Reaction	<input type="checkbox"/>	ll. ACI ITG-5.1	Post-Tensioned Precast Special Walls
<input type="checkbox"/>	mm. ASTM C42	Concrete Core	<input type="checkbox"/>	nn. ASTM D3039	Tensile Strength of FRP
<input type="checkbox"/>	oo. ASTM D4541	Pull of Strength of FRP	<input type="checkbox"/>	pp. ASTM A1034	Rebar Mechanical Splices
<input type="checkbox"/>					
<input type="checkbox"/>					
Tests that are in the lab's scope but are not listed above should be provided in the space(s) below.					
Yes	Standard	Test Procedure	Yes	Standard	Test Procedure
<input type="checkbox"/>	aa.		<input type="checkbox"/>	bb.	
<input type="checkbox"/>	cc.		<input type="checkbox"/>	dd.	
<input type="checkbox"/>	ee.		<input type="checkbox"/>	ff.	

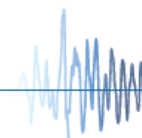




OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

3		MASONRY					
Tests							
Yes	Standard/Code Reference		Test Procedure	Yes	Standard/Code Reference		Test Procedure
<input type="checkbox"/>	a.	ASTM C 140	Dimensions	<input type="checkbox"/>	b.	ASTM C 140	Compressive Strength
<input type="checkbox"/>	c.	ASTM C 140	Absorption	<input type="checkbox"/>	d.	ASTM C 140	Unit Weight
<input type="checkbox"/>	e.	ASTM C 140	Moisture Content	<input type="checkbox"/>	f.	ASTM C 426	Linear Drying Shrinkage
<input type="checkbox"/>	g.	CBC 2105A.2.2.1.4	Mortar Sampling	<input type="checkbox"/>	h.	CBC 2105A.2.2.1.4	Grout Sampling
<input type="checkbox"/>	i.	ASTM C 1314	Prism Compressive Strength	<input type="checkbox"/>	j.	ASTM C 1019	Grout Compressive Strength
<input type="checkbox"/>	k.	ASTM C 780	Mortar Compressive Strength	<input type="checkbox"/>	l.	ASTM C 39	Core Compressive Strength
<input type="checkbox"/>	m.	CBC 2105A.4	Core Shear	<input type="checkbox"/>	n.	ASTM C 1314	Prism Sampling
Tests that are in the lab's scope but are not listed above should be provided in the space(s) below.							
Yes	Standard/Code Reference		Test Procedure	Yes	Standard/Code Reference		Test Procedure
<input type="checkbox"/>	aa.			<input type="checkbox"/>	bb.		
<input type="checkbox"/>	cc.			<input type="checkbox"/>	dd.		
<input type="checkbox"/>	ee.			<input type="checkbox"/>	ff.		

4		STEEL					
Tests							
Yes	Standard/Code Reference		Test Procedure	Yes	Standard/Code Reference		Test Procedure
<input type="checkbox"/>	a.	ASTM A 370	Tension Test	<input type="checkbox"/>	b.	ASTM A 370	Bend
<input type="checkbox"/>	c.	ASTM E 10	Brinell Hardness	<input type="checkbox"/>	d.	ASTM E 18	Rockwell Hardness
<input type="checkbox"/>	e.	ASTM E 190	Guided Bend	<input type="checkbox"/>	f.	ASTM E 23	Charpy V - Notch
<input type="checkbox"/>	g.	ASTM A 90	Weight of Coating	<input type="checkbox"/>	h.	AISC 341 Section K2	Beam to Column Moment & EBF Connections Cyclic Tests
<input type="checkbox"/>	i.	AISC 341 Section K3	BRBF Cyclic Tests	<input type="checkbox"/>	j.	ASTM E 165	Liquid Penetrant
<input type="checkbox"/>	k.	ASTM E 1444	Magnetic Particle	<input type="checkbox"/>	l.	ASTM E 94	Radiographic
<input type="checkbox"/>	m.	ASTM E 164	Ultrasonic	<input type="checkbox"/>	n.	ASTM E 605	Density of SFRM
<input type="checkbox"/>	o.	CBC 2203A.1	Material Identification	<input type="checkbox"/>	P	ASTM F606	Bolt Tension Test
Tests that are in the lab's scope but are not listed above should be provided in the space(s) below.							
Yes	Standard/Code Reference		Test Procedure	Yes	Standard/Code Reference		Test Procedure
<input type="checkbox"/>	aa.			<input type="checkbox"/>	bb.		
<input type="checkbox"/>	cc.			<input type="checkbox"/>	dd.		
<input type="checkbox"/>	ee.			<input type="checkbox"/>	ff.		

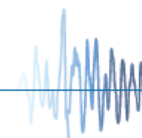




**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION**

5	Wood and Roof Assemblies						
Tests							
Yes	Standard		Test Procedure	Yes	Standard		Test Procedure
<input type="checkbox"/>	a.	ASTM D 3617	Analysis of Built-Up Roof Systems	<input type="checkbox"/>	b.	ASTM D 4442	Moisture Content of Wood
<input type="checkbox"/>	c.	ASTM C 67	Brick and Structural Clay Roof Tiles				
<i>Tests that are in the lab's scope but are not listed above should be provided in the space(s) below.</i>							
<input type="checkbox"/>	aa.			<input type="checkbox"/>	bb.		
<input type="checkbox"/>	cc.			<input type="checkbox"/>	dd.		
<input type="checkbox"/>	ee.			<input type="checkbox"/>	ff.		

6	COMPONENT, ASSEMBLY AND PROTOTYPE TESTING						
Tests							
Yes	Standard/Code Reference		Test Procedure	Yes	Standard/Code Reference		Test Procedure
<input type="checkbox"/>	a.	AAMA 501.4	Static Test for Curtain Wall and Storefront Systems	<input type="checkbox"/>	b.	ICC-ES AC 156	Shake Table Test
<input type="checkbox"/>	c.	AAMA 501.6	Dynamic Test for Curtain Wall and Storefront Systems	<input type="checkbox"/>	d.	FM 1950	Seismic Sway Brace Testing
<i>Tests that are in the lab's scope but are not listed above should be provided in the space(s) below.</i>							
<input type="checkbox"/>	aa.			<input type="checkbox"/>	bb.		
<input type="checkbox"/>	cc.			<input type="checkbox"/>	dd.		
<input type="checkbox"/>	ee.			<input type="checkbox"/>	ff.		





OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

List of Attachments Supporting the Testing Agency/Laboratory Approval (Submit Each Attachment as Separate PDF)

Yes	Enclosure Type
<input checked="" type="checkbox"/>	OSHPD Facilities Development Division (FDD) Payment Form (OSH-AD-367): http://www.oshpd.ca.gov/FDD/Forms/eSPForms/OSH-AD_367%20Facilities%20Development%20Division%20Payment%20Form.pdf
<input checked="" type="checkbox"/>	DSA-LEA Laboratory Qualification as posted at DSA website: https://www.apps.dgs.ca.gov/tracker/ApprovedLabs.aspx
<input checked="" type="checkbox"/>	Latest Copy of DSA 100: LEA Program Application as Submitted to DSA
<input checked="" type="checkbox"/>	Latest copy of DSA 220: LEA Program On-Site Assessment Report
<input checked="" type="checkbox"/>	Latest copy of DSA acceptance (letter) of the Lab. into the LEA program.
<input checked="" type="checkbox"/>	Current Accreditation Certificate(s) including List of Tests for which Laboratory is Accredited
<input type="checkbox"/>	Other (Please Specify):

OSHPD Approval

(For Office Use Only)

Signature:

Approval Date: 10/02/2015

Print Name: James C. Pan

Approval Expiration Date: 04/15/2019

Title: District Structural Engineer

Condition of approval (if applicable):

