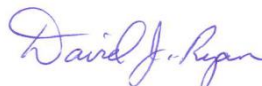
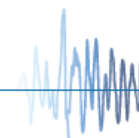




OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD PREAPPROVED LABORATORY (OPL)		For Office Use Only	
		Application #	OPL-0030-15
Name of Approved Agency/Laboratory Twining Inc.	City Long Beach	County Los Angeles	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 David J. Ryan	Signature 	Position in the Organization Quality Manager / Sr. Project Engineer	
Agency/Laboratory Name Twining Inc	Application Date 05/27/2015		
Phone Number (562)426-3355	E-Mail dryan@twininginc.com		
Address of Facility Location (Each facility location requires separate application.)			
Street 3310 E. Airport Way			
City: Long Beach	County Los Angeles	State: CA	Zip Code: 90806
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 David J. Ryan	CA Registration Number 49661	Expiration Date 09/30/2016	
Title in the Organization Quality Manager / Sr. Project Engineer	Phone Number (562)426-3355		
FAX Number (562)426-6424	E-Mail dryan@twininginc.com		
Alternate to Engineering Manager (if any) – Name V. Andrew Tan	CA Registration Number 64265	Expiration Date 6/30/2015	
Title in the Organization Engineering Evaluation Service Manager	Phone Number (562) 426-3355		
FAX Number (562)426-6424	E-mail atan@twininginc.com		





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KEY PERSONNEL (Attach additional pages if needed.)

Laboratory Supervisor – Name Steve Crumb	CA Registration Number (if any)	Expiration Date
Title in the Organization Lab Manager	Phone Number (562) 426-3355	
FAX Number (562)426-6424	E-Mail scrumb@twininginc.com	
Field Supervisor – Name Scott Benson	CA Registration Number (if any)	Expiration Date
Title in the Organization Field Supervisor	Phone Number (562) 426-3355	
FAX Number (562)426-6424	E-mail sbenson@twininginc.com	

ACCREDITATION

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

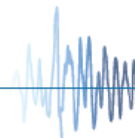
- ☐ AASHTO Accreditation Program (AAP) ☐ National Voluntary Laboratory Accreditation Program (NVLAP)
☒ International Accreditation Service (IAS) ☐ American Association of Laboratories Program (A2LA)
☐ Laboratory Accreditation Program (LAB) ☐ Construction Materials Engineering Council (CMEC)
☒ Other _AMRL / CalTrans / Dept. of Army-Corps of Engineers / City of Los Angeles

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: 04/25/2017

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)*



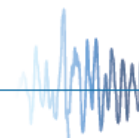


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STANDARDS

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.**

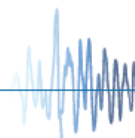
1 SOILS AND FOUNDATIONS							
Tests							
Yes	Standard		Test Procedure	Yes	Standard		Test Procedure
X	a.	ASTM D 2487	Classification of Soils	X	b.	ASTM D 422	Particle Size Analysts
X	c.	ASTM D 2216	Moisture Content	X	d.	ASTM D 4318	Liquid / Plastic Limit
<input type="checkbox"/>	e.	ASTM D 2850	Unconsolidated, Undrained Triaxial	<input type="checkbox"/>	f.	ASTM D 4767	Triaxial Compression
X	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 Pizocone Penetration Test	<input type="checkbox"/>	j.	ASTM D 3441	Cone Penetration Test (CPT)
X	k.	ASTM D 1140	No. 200 Wash	X	l.	ASTM D 4829	Expansion Index
X	m.	ASTM D 2419	Sand Equivalent Value	X	n.	ASTM D 1557	Soil Compaction – Modified
X	o.	ASTM D 3080	Direct Shear	X	p.	ASTM D 6938	Density of Soils – Nuclear Gage
X	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.		





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2		CONCRETE			
Tests					
Yes	Standard	Test Procedure	Yes	Standard	Test Procedure
X	a.	ASTM D 75	X	b.	ASTM C 702
X	c.	ASTM C 40	X	d.	ASTM C 29
X	e.	ASTM C 88	X	f.	ASTM C 566
X	g.	ASTM C 142	X	h.	ASTM C 127
X	i.	ASTM C 128	X	j.	ASTM C 117
X	k.	ASTM C 136	X	l.	ASTM C 131
X	m.	ASTM D 2419	X	n.	ASTM C 31, C 172, CBC 1905A.1.2
X	o.	ASTM C 192	X	p.	ASTM C 173
<input type="checkbox"/>	q.	ASTM C 1602	<input type="checkbox"/>	r.	ASTM C1604
X	s.	ACI 355.2	X	t.	ASTM C 231
X	u.	ASTM C 143	X	v.	ASTM C 1064
X	w.	ASTM C 617	X	x.	ASTM C 1231
X	y.	ASTM C 39	X	z.	ASTM C 157
X	aa.	ASTM C 78	X	bb.	ASTM C 496
X	cc.	ASTM C 42	X	dd.	ASTM C 138
X	ee.	ASTM C 495	X	ff.	ASTM C 567
X	gg.	ASTM E 488	<input type="checkbox"/>	hh.	ACI 355.4
<input type="checkbox"/>	ii.	ACI 374.1	<input type="checkbox"/>	jj.	ASTM C 1260
X	kk.	ASTM C 1293	<input type="checkbox"/>	ll.	ACI ITG-5.1
X	mm.	ASTM C42	X	nn.	ASTM D3039
<input type="checkbox"/>	oo.	ASTM D4541	X	pp.	ASTM A1034
<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.	





4	STEEL						
	Tests						
Yes	Standard/Code Reference		Test Procedure	Yes	Standard/Code Reference		Test Procedure
X	a.	ASTM A 370	Tension Test	X	b.	ASTM A 370	Bend
<input type="checkbox"/>	c.	ASTM E 10	Brinell Hardness	X	d.	ASTM E 18	Rockwell Hardness
X	e.	ASTM E 190	Guided Bend	X	f.	ASTM E 23	Charpy V - Notch
X	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	X	j.	ASTM E 165	Liquid Penetrant
X	k.	ASTM E 1444	Magnetic Particle	<input type="checkbox"/>	l.	ASTM E 94	Radiographic
X	m.	ASTM E 164	Ultrasonic	X	n.	ASTM E 605	Density of SFRM
X	o.	CBC 2203A.1	Material Identification	X	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.		



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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
X	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.		





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

Yes	Enclosure Type
X	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
X	DSA-LEA Laboratory Qualification as posted at DSA website: https://www.apps.dgs.ca.gov/tracker/ApprovedLabs.aspx
X	Latest Copy of DSA 100: LEA Program Application as Submitted to DSA
X	Latest copy of DSA 220: LEA Program On-Site Assessment Report
X	Latest copy of DSA acceptance (letter) of the Lab. into the LEA program.
X	Current Accreditation Certificate(s) including List of Tests for which Laboratory is Accredited
X	Other (Please Specify):

OSHPD Approval

(For Office Use Only)

Signature:

Approval Date: 08/05/2015

Print Name: James C. Pan

Approval Expiration Date: 04/25/2017

Title: District Structural Engineer

Condition of approval (if applicable):

