ADDENDUM NO. 9

March 11, 2019

REQUEST FOR PROPOSALS (BID DOCUMENTS)

FOR

STUDENT SUCCESS CENTER PROJECT NO. 950512





The following changes, additions, or deletions shall be made to the following documents as indicated for this Project; and all other terms and conditions shall remain the same. Each Proposer (Design Builder) is responsible for transmitting this information to all affected subcontractors and suppliers before the Proposal Deadline.

1. ANNOUNCEMENT TO PREQUALIFIED PROPOSERS

Delete the "Announcement to Prequalified Proposers" and **replace** with the one issued in this Addendum.

2. REQUEST FOR PROPOSALS

A. Proposal Schedule

Delete the "Proposal Schedule" and **replace** with the one issued in this Addendum

- B. <u>University Furnished Information</u>
 - 1. Table of Contents

Delete the "University Furnished Information Table of Contents", and **replace** with the one issued in this Addendum.

- 2. **Add** Item 6B, "Geotechnical Engineering Evaluation Report, Pierce Hall Classroom Addition and Building Renovation Project" to the Table of Contents and place documents in the University Furnished Information Item 6 "Geotechnical Reports" folder.
- 3. **Add** Item 6C, "Percolation Testing Report Pierce Hall Classroom Addition and Building Renovation Project" to the Table of Contents and place documents in the University Furnished Information Item 6 "Geotechnical Reports" folder.
- 4. **Add** Item 6D, "Geotechnical Investigation Proposed Interdisciplinary Studies Building" to the Table of Contents and place documents in the University Furnished Information Item 6 "Geotechnical Reports" folder.
- 5. Add Item 6E, "Geotechnical Observation of Grading and Field Density Test Results Report, Proposed College of Humanities Arts and Social Sciences (CHASS) Buildings Instruction & Research Facility" to the Table of Contents and place documents in the University Furnished Information Item 6 "Geotechnical Reports" folder.

<u>B.</u>	Geotechnical Engineering Evaluation Report Pierce Hall Classroom Addition and Building Renovation Project	<u>Twining</u>	<u>July 8, 2016</u>
<u>C.</u>	Percolation Testing Report Pierce Hall Classroom Addition and Building Renovation Project	<u>Twining</u>	<u>May 5, 2017</u>



<u>D.</u> <u>Geotechnical Investigation Proposed</u> <u>Interdisciplinary Studies Building</u> <u>Riverside Campus</u>

E Geotechnical Observation of Grading
and Field Density Test Results Report
Proposed College of Humanities Arts
and Social Sciences (CHASS) Buildings
- Instruction & Research Facility

Converse Consultants

<u>September</u> 21, 2006

- 6. **Add** Item "39, Dining Services Venue: Concept Plan" to the Table of Contents and place documents in University Furnished Information folder.
- 7. **Add** Item "40, UCR North District Dining Drawings" to the Table of Contents and place document in University Furnished Information folder.
- 8. **Add** Item "41, Walker Macy UCR Plant List Review" to the Table of Contents and place document in University Furnished Information folder.
- 9. **Add** Item "42, Benchmark-based, Whole-Building Energy Performance Targets for UC Buildings" to the Table of Contents and place document in University Furnished Information folder.

39. DINING SERVICES VENUE: CONCEPT PLAN

A. UC Riverside

Student Success Center

Dining Services Venue: Concept

Plan

Project Number: 950512

40. UCR NORTH DISTRICT DINING DRAWINGS

A. UCR Food Lab North District
Riverside, CA
(Drawings K-01, K-02 & K-02.1)

Clay Enterprises

January 17, 2019

41. WALKER MACY UCR PLANT LIST REVIEW

A. Walker Macy UCR Plant List Review



<u>42.</u> <u>BENCHMARK-BASED, WHOLE-BUILDING ENERGY PERFORMANCE TARGETS FOR UC BUILDINGS</u>

<u>A. Benchmark-based, Whole-Building</u> <u>California Institute for Energy and March 2014</u>
<u>Energy Performance Targets for UC</u> <u>Environment</u>
<u>Buildings</u>

3. <u>DESIGN BUILDER QUESTIONS & ANSWERS</u>

Q28	We would like access to the site for additional investigation. Please advise if there is an Entrance to Property form or other document that needs to be submitted prior to scheduling access.
A28	UCR does not have an entry to the property form that needs to be filled to access the site as the UCR Campus is open to public- and therefore Design-Builders may visit the project site at their discretion. However, if the Design-Builder wishes to conduct extensive field surveys or studies (which may include the use of surveying equipment, or impact to the site/access to the site during surveying activities); the Design-Builder to contact University's Consultant (Lynn Javier- lynn.javier@ucr.edu (951-827-7911) with a copy to Betty Osuna-betty.osuna@ucr.edu) with a request: The following information should be included with the request: Date/s of entry Projected amount of time for activities Number of persons and Equipment used The type of activity that will be conducted The University will facilitate the request and may choose to approve or deny the request. The University will respond to the Design-Builder the outcome of the request. The Design-Builder to receive approval from the University ahead of study/survey.
Q29	The BOD indicates that a grease interceptor is to be provided. However, addendum 3 indicates that no grease cooking will be performed in the dining services. Please clarify.
A29	There will be some food preparation, some food re-thermalization, and some transferring of hot & cold foods to various service vessels, etc. Each of these activities will generate soiled pans and utensils, all of which will require a 3-compartment sink. Additionally, a dishwasher will be in the design. Both pieces of equipment trigger the requirement for a grease interceptor.
Q30	The Plumbing BOD indicates a requirement for a grease interceptor, however, Addendum #3 indicates that most food preparation will be done off-site and only warming and assembly will be done in the new space. Furthermore, it's stated that no grease cooking requiring hoods shall be present. Please clarify if a Grease Interceptor is required.
A30	Please refer to Q29 for the response.
Q31	Please provide "Food Lab Concepts" Presentation, originally listed in the Table of Contents for the Appendix but not included (has since been deleted in Addendum 3). If that is not available please provide design test fits for Dining Services.

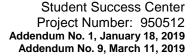


A31	A concept plan for the Dining Services venue is being issued as University Furnished Information in Addendum No. 9. This is for concept planning purposes only.
Q32	For Dining Services, the BOD states to provide a raw shell with minimum sizing requirements. However, it additionally mentions that the DBE is ultimately responsible for sizing systems. Please provide a menu from which the sizing of infrastructure can be derived from.
	Final menu selections will not be completed until 3 - 6 months prior to opening
	To inform the design and sizing of infrastructure of the dining services venue; the university is providing the 'food service equipment floor plans' and 'equipment lists' from the North District Dining venue as University Furnished information.
A32	The "market-style restaurant concept" for the Student Success Center is intended to be the same "market-style restaurant concept" for North District. Both locations will have the same branding, interior scheme and very similar menu offerings. Duplicating the concepts allows for greater efficiencies is managing, procurement and marketing expenses. That said, the Design-Build teams should exclude the hood and fryer requirement when calculating their infrastructure sizing. This is for concept planning purposes only. Loads will vary as the design progresses with the selection of the successful Design-Builder.
	North District Food Service Equipment Floor plans and Equipment List are being issued as University Furnished Information in Addendum No. 9.
Q33	Under the Sustainable Design Requirements, section 01 8113, Part 1, General: The requirements state that the project must achieve LEED Gold under LEED BD+C v4 or current BD+C rating system. The USGBC recently released LEED BD+C v4.1, with a stronger focus on GHG emissions but also a more stringent energy baseline. Please clarify if the University would be open to certifying the project under either LEED v4 or LEED v4.1
A33	The Student Success Center to be certified to meet LEED Gold as per the Project Program Design Criteria. As such; Design-Build teams can either use LEED v4.1, LEED v4, or swap certain LEED v4.1 credits with their LEED v4 counterpart if permitted by USGBC. Design-Build teams should clearly identify in their submittal, the LEED BD+C rating system version or what, if any, v4 credits are substituted with v4.1. Regardless of version selected, all other sustainability requirements or policies must be met e.g., exceeding Title 24 by 20%.
Q34	The Tree Inventory Report requests that a number of trees be relocated, it also states that several California native trees be protected within the site area, such as Platanus racemosa and Quercus lobate. However, the BOD, pg 4.51 specifies for these trees to be removed. Please clarify tree relocation scope and confirm which trees are to be removed.
	Trees that are removed to accommodate the building do not need to be relocated- as identified in the BOD- Revised Landscape exhibit Page 4.51
A34	Trees on the south of the Site – as identified in SK-1 Laydown diagram are identified to be protected in place.
	Please also refer to Q9 for more information about the oak tree immediately south of the proposed Student Success center footprint.
Q35	Please provide a copy of the following report, listed as a reference on page 7 of the document titled "6. Geotechnical Data Report", in the Owner Furnished Documents portion of the RFP.



	Twining, Inc., 2016, Geotechnical Engineering Evaluation Report for Pierce Hall Classroom Addition and Building Renovation Project, Project No. 160060.3, July 8, 2016.
A35	The Geotechnical information for the Pierce Hall renovations is being issued as University Furnished Information in Addendum No. 9.
Q36	Please confirm heating hot water coils should be designed for maximum 150°F supply temperature and 100°F return temperature per the provided specs. The provided Div. 23 Campus specifications refers to a central campus high temperature hot water loop, which does not seem to apply to this project.
A36	The heating hot water coils need to be designed for the operating temperatures that the Design-Build team elects to design around. The equipment/coils/components shall be rated for those operating conditions.
Q37	Please provide the record soils report for the utility tunnel.
A37	This information is not available.
Q38	Per p. 4.5 of the BOD, the building is to be approachable from "multiple directions". Additionally, per p. 4.36, it states that " service access for trash and other services shall not greatly interfere with pedestrian circulation". However, in the Warm Shell Tenant Improvement Space Guideline, UCR Dining Services, March 16, 2018 – description of "Site Improvements – Service Yard" includes "screen around service yard, gate, power, water, equipment pad, etc. The information provided for this Service area is in conflict: indoor trash collection and storage versus an outdoor yard with requirements noted in Warm Shell Improvement document. Please clarify which criteria is to be followed.
A38	The Basis of Design to take precedence for the design of the Dining Service access.
Q39	Please provide the record soils report for the Chass Building.
A39	The Geotechnical report is being issued as University Furnished Information in Addendum No. 9
Q40	The Chass As-builts record drawing provided in the University furnished information, reference sheet M100.1 shows Telephone, Sewer, gas, and SD line within the BSAI that is not shown on any other documents provided. Please confirm if these lines have already been relocated, or they need to be relocated as part of this project's scope.
A40	The University cannot confirm if the lines have already been relocated. If the lines impact the Design-Builders proposed design it is the responsibility of the Design-Builder to relocate the lines as necessary.

END OF ADDENDUM





ANNOUNCEMENT TO PREQUALIFIED PROPOSERS

Subject to conditions prescribed by the University of California, Riverside, sealed proposals for a Design Build contract are invited from prequalified proposers for the following work:

STUDENT SUCCESS CENTER

DESCRIPTION OF WORK

The proposed Student Success Center will be a 60,000 GSF / 39,000 ASF facility that will address UCR's growing student population and its shortfall in classroom capacity. The Project will consist of three primary program elements: 1) General assignment classrooms designed for modern pedagogies and technology. 2) Multipurpose student life spaces for use by student organizations, and areas for scholarly activity such as tutoring, mentoring and study. 3) Shelled Dining Services venue.

Maximum Acceptance Cost: \$47,100,000 (funding is pending administrative approval)

The University has determined that the following Proposers have been prequalified:

HENSEL PHELPS CONSTRUCTION CO, Irvine, CA 92612
MCCARTHY BUILDING COMPANIES, INC. Newport Beach, CA 92660
SWINERTON BUILDERS, Irvine, CA 92416

PROCEDURES:

Pending administrative approval, Request for Proposals will be available beginning at **2:00 PM**, on **Friday**, **January 11**, **2019** and will be issued at:

IB Reprographics

3363 Durahart Street Riverside, CA 92507 Phone: (951) 682-1850 Website: https://www.ibrepro.com/

Technical Proposals must be received on or before: Thursday, April 11, 2019 Thursday, May 16, 2019, 2:00 PM

Price Proposals must be received on or before: Friday, April 12, 2019 Friday, May 17, 2019, 2:00 PM

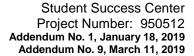
Price Proposals will be opened at: Thursday, April 23, 2019 Monday, June 3, 2019, 11:00 AM at:

Architects & Engineers Planning, Design & Construction

University of California, Riverside 1223 University Avenue, Suite 240 Riverside, California 92521 951-827-7911

Mandatory Pre-Proposal Conference & Project Site Visit. A mandatory pre-proposal conference will be conducted on Monday, January 14, 2019, beginning promptly at 1:30 PM. Only proposers who participate in the pre-proposal conference and project site visit, in their entirety, will be allowed to propose on the project. Participants must arrive at or before 1:30 PM. Persons arriving later than 1:40 PM will not be allowed to submit proposals as design builder on the project. The Big Springs Parking Garage located on Big Springs Road will be opened for all participants to park. A parking attendant will be issuing permits at the Big Springs Parking Garage from 12:00 PM - 1:30 PM.

Participants shall meet at:





Glen Mor Building K, Rooms K106/K108 University of California, Riverside Riverside, California 92507 951-827-7911

Proposers shall come prepared with questions concerning needed clarifications and shall only send their project manager, design professional, or other professional intended to work on the project to attend this meeting. For further information, contact Lynn Javier, University's Consultant at (951) 827-7911, lynn.javier@ucr.edu

Proposal Security in the amount of 10% of the Lump Sum Base Proposal, excluding alternates, shall accompany each bid. The surety issuing the Bid Bond shall be, on the bid deadline, an admitted surety insurer (as defined in the California Code of Civil Procedure Section 995.120)

All insurance policies required to be obtained by Design Builder shall be subject to approval by University for form and substance. All such policies shall be issued by a company rated by Best as A- or better with a financial classification of VIII or better, or have equivalent rating by Standard and Poor's or Moody's.

The successful proposer and its subcontractors will be required to follow the nondiscrimination requirements set forth in the proposal documents and to pay prevailing wage rates at the location of the work.

No contractor or subcontractor may be listed on a Bid for this project (submitted on or after March 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code section 1771.1(a)].

No contractor or subcontractor may be awarded any portion of this project (awarded on or after April 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5.

This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

The successful proposer shall pay all persons providing construction services and/or any labor on site, including any University location, no less than the UC Fair Wage (defined as \$13 per hour as of 10/1/15, \$14 per hour as of 10/1/16, and \$15 per hour as of 10/1/17) and shall comply with all applicable federal, state and local working condition requirements.

The successful proposer will be required to have the following California contractor's license at the time of the proposal opening: **General Building Contractor "B" License.**

Lynn Javier, University's Consultant, (951) 827-7911, lynn.javier@ucr.edu
Pid Baards http://www.asa.edu/lynningas/contractors/html

Bid Board: http://ae.ucr.edu/business/contractors.html

THE REGENTS OF THE UNIVERSITY OF CALIFORNIA

University of California, Riverside

Dates of Publication: 12/21/2018 thru 01/14/2019



Project Name: Student Success Center Project Number: 950512 Addendum No. 2, February 1, 2019 Addendum No. 5, February 14, 2019 Addendum No. 7, February 26, 2019 Addendum No. 9, March 11, 2019

PROPOSAL SCHEDULE

	ACTIVITY	DATE	Тіме
Α	The RFP will be available to Prequalified Proposers, subcontractors and design consultants.	1/11/19	2:00 PM
В	Pre-Proposal Conference & Site Visit – Mandatory for all Prequalified Proposers. Participants must arrive at University of California, Riverside, Glen Mor, Building K, Room K106/K108, Riverside, CA 92507 at or before the established time.	1/14/19	1:30 PM
	The University will hold confidential One-on-One meetings with each Proposer prior to the Technical Proposal Submittal for the purpose of answering questions, clarifying RFP and program requirements, reviewing and validating preliminary designs etc. Meeting location: University of California, Riverside, Pentland Hills Bear Cave B107/C101, Riverside, CA 92507.	2/7/19	8:30 AM (SB) 11:00 AM (HP) 1:30 PM (MB)
C	The University will hold confidential One-on-One meetings with each Proposer prior to the Technical Proposal Submittal for the purpose of answering questions, clarifying RFP and program requirements, reviewing and validating preliminary designs etc. Meeting location: University of California, Riverside, University Village, 1299 University Ave., Room EUV-1103, Riverside, CA 92507.	3/1/19	8:00 AM (MB) 10:30 AM (SB) 1:00 PM (HP)
The University will hold of Technical Proposal Submitt requirements, reviewing ar California, Riverside, Alumr	The University will hold confidential One-on-One meetings with each Proposer prior to the Technical Proposal Submittal for the purpose of answering questions, clarifying RFP and program	3/21/19	8:30 AM (<i>HP</i>) 11:00 AM (MB) 1:30 PM (SB)
	requirements, reviewing and validating preliminary designs etc. Meeting location: University of California, Riverside, Alumni & Visitor Center, Alumni Johnson Board Room, 3701 Canyon Crest Drive, Riverside, CA 92521.	<u>4/24/19</u>	8:30 AM (SB) 11:00 AM (HP) 1:30 PM (MB)
D	Technical Proposal Submittal is due from Proposers and will be received only at University of California, Riverside, Planning, Design & Construction, 1223 University Avenue, Suite 240, Riverside, CA 92507. The Technical Proposal Submittal is defined in the <i>Technical Proposal</i> .	04/11/19 <u>5/16/19</u>	2:00 PM
E	Lump Sum Base Price Proposal Submittal is due from Proposers and will be received only at University of California, Riverside, Planning, Design & Construction, 1223 University Avenue, Suite 240, Riverside, CA 92507. The Lump Sum Base Price Proposal Submittal is defined in the Lump Sum Base Price Proposal.	04/12/19 5/17/19	2:00 PM

1/11/19 1 of 2 Proposal Schedule



Project Name: Student Success Center Project Number: 950512 Addendum No. 2, February 1, 2019 Addendum No. 5, February 14, 2019 Addendum No. 7, February 26, 2019 Addendum No. 9, March 11, 2019

F	The University's Technical Review Committee will meet to review timely submitted Technical Proposals as described in the Proposal Evaluation Process document.	4/18/19-4/19/19 <u>5/29/19-5/30/19</u>	8:00 AM - 5:00 PM
G	Proposers shall make an Oral Presentation and describe the best value aspects of their proposals. Cost shall not be discussed during the Oral Presentation.	4 /22/19 <u>5/31/19</u>	8:00 – 5:00 PM
н	Timely submitted Lump Sum Base Price Proposals shall be publicly opened at University of California, Riverside, Planning, Design & Construction, 1223 University Avenue, Conference Room Suite 210-16, Riverside, CA 92507. The University will acknowledge the timely receipt of submittals and whether or not the submittals appear to be responsive. No cost or point scoring information will be disclosed to the public at this time.	4 /23/19 <u>6/3/19</u>	11:00 AM

<u>Late Proposals:</u> Any proposal, modification, or revision that is received at the designated University of California, Riverside, Planning, Design & Construction location after the exact time specified for receipt of proposals is "late" and will not be considered unless it was the only proposal received. Late proposals and modifications that are not considered will be held unopened, unless opened for identification, and then returned to the Proposer after award.

1/11/19 1 of 2 Proposal Schedule



UNIVERSITY FURNISHED INFORMATION

The following information is made available for the convenience of Proposers and is not a part of the Contract. The information is provided subject to the provisions of subparagraph 3.1.1 of the General Conditions.

Issued electronically on the "Request for Proposals" CD (Located behind the first tab of this binder)

PREVAILING WAGES

General Prevailing Wage Determinations and information can be accessed at www.dir.ca.gov or by contacting University's principal Facility office.

DES	CRIPTION		
No.	Title:	Prepared by:	Date:
1.	AS-BUILTS		
Α.	Fine Arts Seismic Facility	Fields Devereaux Architects & Engineers	April 27, 1998
В.	Physical Education Building	Arthur Froehlich, AIA, Architect	April 28, 1952
C.	Physical Education Building Room 102 Alterations for Dance	Cashion Horie Cocke Gonzales Architects, Inc. (CHCG)	June 1986
D.	CHASS-Instruction & Research Facility	PEI Cobb Freed & Partners	March 20, 2008
Ε.	Administration Building (Hinderaker)	Allison and Rible Architects	January 27, 1961
F.	Humanities and Social Sciences Unit 1	Cesar Pelli & Associates	August 10, 1993
G.	Classroom and Office Unit 1 (Sproul)	Douglas Honnold FAIA, John Rex, FAIA, Architects and Associates	June 2, 1965
Н.	Student Academic Support Services Building	Sasaki	March 2009
2.	UCR MOBILITY HUB AND CENTRA	L CAMPUS LINKAGES	
Α.	UCR Mobility Hub and Central Campus Linkages – Scope 1 Report	Gruen Associates	December 21, 2017
В.	UCR Mobility Hub and Central Campus Linkages – Appendices	Gruen Associates	December 21, 2017



2	STUDENT SUCCESS CENTED VISI	ONING WORKSHOP	
3.	STUDENT SUCCESS CENTER VISI	UNING WURKSHUP	
A.	UCR Student Success Center Visioning Workshop Capital Asset Strategies	Capital Planning	April 20, 2017
В.	UCR Student Success Visioning Workshop – Site Selection Study Handout	UCR Capital Planning	April 20, 2017
4.	UCR 2005 LRDP AND AMENDMEN	тѕ	
A.	Long Range Development Plan 2005	UCR Office of Academic Planning & Budget; Capital & Physical Planning with the assistance of: BMS Design Group	November 2005
В.	2005 Long Range Development Plan Amendment 2	UCR Finance & Business Operations Capital Resource Management	November 2001
C.	2005 LRDP Amendment 3 Campus Infrastructure Overlay Land Use Designation		September 2013
5.	TOPOGRAPHIC SURVEY		
	University of California, Riverside Student Success Center Topographic Survey	IMEG	July 13, 2018
6.	GEOTECHNICAL REPORTS		
А.	Proposed Student Success Center UCR Project No. 958056	Twining	December 17, 2018
<u>B.</u>	Geotechnical Engineering Evaluation Report Pierce Hall Classroom Addition and Building Renovation Project	<u>Twining</u>	July 8, 2016
<u>C.</u>	Percolation Testing Report Pierce Hall Classroom Addition and Building Renovation Project	<u>Twining</u>	<u>May 5, 2017</u>
<u>D.</u>	Geotechnical Investigation Proposed Interdisciplinary Studies Building Riverside Campus		



E Geotechnical Observation of Grading and Field Density Test Results Report
Proposed College of Humanities Arts and Social Sciences
(CHASS) Buildings – Instruction & Research Facility

Converse Consultants

<u>September 21, 2006</u>

7	DITIVOLOAL	DESIGN FRAMEWORK	

Physical Design Framework

2009/10 - 2018/2019

8. UC BOARD OF REGENTS

Regents Policy 4400: Policy on University of California Diversity Statement

University of California Board of Regents

Adopted September 20, 2007 Amended September 16, 2010

9. STUDENT SUCCESS CENTER CLASSROOM COMPONENT SUMMARY OF FEEDBACK

Student Success Center Classroom Component Summary of Campus Feedback

UCR Office of the Provost and Executive Vice Chancellor

May 2017

10. STUDENT SUCCESS CENTER SITE SELECTION STUDY

Site Selection Study Student Success Center Building **UCR Capital Asset Strategies**

June 16, 2017

11. UC SUSTAINABLE PRACTICES POLICY

UC Policy on Sustainable Practices

University of California

Issuance Date: July 1, 2004 Effective Date: August 10,

2018

12. UCR CAMPUS PROCESS: GENDER INCLUSIVE FACILITIES 2015

UCR Campus Process: Gender Inclusive Facilities 2015

Associate Vice Chancellor / Campus Architect Architect & Engineers November 1, 2015

13. UCR CENTRAL CAMPUS NEIGHBORHOOD STUDY

UCR Central Campus Neighborhood Study **HKS Spurlock**

April 12, 2017



14.	UCR PHYSICAL MASTER PLAN ST	TIINY	
14.	OOKT THOIOAL MACTER FEAR OF		
	UCR Physical Master Plan Study		May 17, 2016
15.	UCR PRINCIPLES OF COMMUNITY	,	
	UCR Principles of Community		
16.	UCR DINING SERVICES		
	Warm Shell Tenant Improvement Space Guideline	UCR Dining Services	March 16, 2018
17.	UCR RIVERSIDE SITE FEASIBILITY	' REPORT	
	UCR Site Feasibility Report	Steinberg Hart	January 2018
18.	UTILITY MAPS		
A	Student Success Center 100 PSI Air Controls Approximate Locations (Draft)		10/9/18
B.	Student Success Center 100 PSI Steam Controls Approximate Locations (Draft)		10/9/18
C.	Student Success Center Chilled Water Line Approximate Locations (Draft)		10/8/18
D.	Student Success Center Natural Gas Line Approximate Locations (Draft)		10/8/18
E.	Student Success Center Storm Drain Manholes (Surveyed – 2014) Storm Drain Line (Approximate Locations) (Draft)		10/8/18
F.	Student Success Center Existing Electric Distribution (Draft)		10/9/18
19.	DAART ENGINEERING FLOW TEST	г	
	Daart Engineering Flow Test UCR Student Success Center		6/7/18



. UCR CAMPUS STANDARDS - DRAFT	
Div. 3 – Concrete	Revised April 17, 2018
Div. 4 - Masonry	January 14, 2018
Div. 5 – Metal	January 14, 2018
Div. 6 – Wood, Plastics and Composite	January 18, 2018
Div. 7 – Thermal and Moisture Protection	January 14, 2018
Div. 8 – Openings	Revised March 21, 2018
Div. 9 – Finishes	January 14, 2018
Div. 10 - Specialties	March 12, 2018
Div. 11 – Equipment	Revised April 15, 2018
Div. 12 – Furnishings	November 30, 2015
Div. 13 – Special Construction	January 14, 2018
Div. 14 – Conveying Systems	January 14, 2018
Div. 15 – Operation and Maintenance Manuals	
Div. 21 – Fire Suppression	Revised April 25, 2018
Div. 22 – Plumbing	Revised April 17, 2018
Div. 23 – HVAC	March 28, 2018
Div. 25 – Integrated Automation	Revised March 13, 2018
Div. 26 - Electrical	January 24, 2018
Div. 27 – Communications	January 24, 2018
Div. 28 – Electronic Safety and Security	January 24, 2018
Div. 31 – Site Work	January 2016
Div. 32 – Exterior Improvements	March 2016
Div. 33 – Site Utilities	January 2018

21. SEWER CAPACITY STUDY

UC Riverside Physical Master Plan Study Appendix 6.8-A Sanitary Sewer Calculations



2012

May 9, 2018

September 18, 2018

2019

22. **UCR 2020 - FINAL**

> UCR 2020 July 2010

The Path to Preeminence

23. UCR LANDSCAPE SERVICES DEPT. LANDSCAPE- IRRIGATION GUIDELINES 2012

UCR Landscape Services Dept. Landscape-Irrigation Guidelines

2012

24. TREE INVENTORY REPORT

> Tree Inventory Report University of California, Riverside Student Success Center Project

Tricia D. Thrasher University of California, Riverside Campus Planning

Capital Asset Strategies

Psomas

IMPLEMENTATION OF UC GENDER INCLUSIVE FACILITIES POLICY AT UC RIVERSIDE - MEMO

Implementation of UC Gender Inclusive Facilities Policy at UC

Riverside - Memo

To: Gerry Bomotti, Vice Chancellor,

Planning and Budget

From: Jacqueline Norman, Campus Architect & Robert Keith Williams, Certified Building Official

UCR CAMPUS CONTEXT

UCR Campus Context (Exemplary Examples / Non-**Exemplary Examples**

UCR Planning Design &

Construction

WEPA LOW PRINT STATION SPECIFICATIONS 27.

WEPA Low Profile Print Station

Specifications

WEPA

LAPTOP KIOSK CONFIGURATION

Laptop Kiosk Configuration Laptops Anytime

UCR CAMPUS V2018 UPDATES CADD DRAWINGS AND SUPPORTING DOUMENTATION

UCR Campus v2018 Update Auto Α. **CADD Drawings**

B. University California, Riverside March 2015



	Aerial Target Ground Control Survey Report Job #2011018.003		
C.	UCR Campus Control Survey – Sheet 1 of 2	Hillwig – Goodrow, Inc.	December 2013
D.	UCR Campus Control Survey – Sheet 2 of 2	Hillwig – Goodrow, Inc.	December 2013
E.	UCR Data Delivery Standards for UCR Planning, & Design Projects Capital Programs		March 13, 2015
F.	UCR Horizontal and Vertical Accuracy of Campus Spatial Data (GIS) (Memorandum)		May 22, 2013
G.	UC Riverside Campus Control Points	Hillwig – Goodrow, Inc.	December 2013
30.	MOBILITY HUB AND CENTRAL CA	AMPUS LINKAGES	
	Mobility Hub and Central Campus Linkages – 100% Construction Document Bid Set	Gruen Associates	January 10, 2019
31.	BICYCLE MASTER PLAN EXCERP	т	
	Bicycle Master Plan Excerpt		
32.	Bicycle Master Plan Excerpt TOPO SURVEY CAD DRAWINGS		
32.			July 30, 2018
32.	TOPO SURVEY CAD DRAWINGS	AWINGS	July 30, 2018
Ξ	TOPO SURVEY CAD DRAWINGS TOPO Survey CAD Drawings	AWINGS UCR	July 30, 2018
33.	TOPO SURVEY CAD DRAWINGS TOPO Survey CAD Drawings CAMPUS COMMUNICATIONS DRA Typical BDF Wall Elevation Layout –		July 30, 2018
33. A.	TOPO SURVEY CAD DRAWINGS TOPO Survey CAD Drawings CAMPUS COMMUNICATIONS DRA Typical BDF Wall Elevation Layout – Rack Power - Plan & Elevation Typical Details – Communications Symbols and Telephone/Data	UCR	July 30, 2018



E.	Typical Details – Typical BDF and IDF Telecom Room Requirements	UCR	
F.	Typical Details – Work Station Outlet Labeling Detail and Patch Panel / 110 Block Labeling Plan	UCR	
34.	UCR POLICIES, GUIDELINES & STA	NDARDS	
A.	Communications Infrastructure Planning Guidelines Version – November 23, 2015	UCR	November 23, 2015
В.	PPSM 84: Accommodations for Nursing Mothers	University of California	December 10, 2018
C.	UCR Healthy Campus Initiative Healthy Workplace Checklist		
D.	UCR Building, Room Numbering Standards	Facilities Management	October 2006
35.	UCR CAMPUS ELECTRICAL DRAWI	NGS AND DIAGRAMS	
A.	UCR Site Electrical Distribution 12 kv Single Line Diagram (E-2, 1 of 3)	UCR	October 19, 2015
В.	UCR Site Electrical Distribution Combined Diagrams (E-2, E2.1 & E2.2)	UCR	October 19, 2015
C.	UCR Site Electrical Distribution Parking Lot 30 Substation 4.16 kv Single Line Diagram (E2.1, 2 of 3)	UCR	October 19, 2015
D.	UCR Site Electrical Distribution Steam Plant 4.16 kv Single Line Diagram (E2.2, 3 of 3)	UCR	October 19, 2015
E.	UCR Existing Electrical Site Plan 2015 Partial UCR Campus Map Electrical Distribution (E-4, 1 of 1)	UCR	September 14, 2015
36.	UC RIVERSIDE CAMPUS SIGN PRO	GRAM	
Α.	UC Riverside Campus Sign Program, 100% Package	Hunt Design	August 3, 2012



37. UC RIVERSIDE BUDGET PLANNING DOCUMENT

A. UC Riverside Budget Planning
Document for Network Electronics
Student Success Center
100% Description Design & Criteria

UC Riverside
Computing and Communications

May 30, 2018

38. UCR TUNNEL AND VAULT DRAWINGS

A. Tunnel, Vault & Bldg. Map Chilled Water System High Pressure Condensate Pumped Condensate 100 PSI Steam 100 PSI Compressed Air Natural Gas UC Riverside
October 2016
March 2012
May 2012
May 2012
May 2012
May 2012
May 2012

May 2012

39. DINING SERVICES VENUE: CONCEPT PLAN

A. UC Riverside

Student Success Center

Dining Services Venue: Concept

Plan

Project Number: 950512

40. UCR NORTH DISTRICT DINING DRAWINGS

A. UCR Food Lab North District
Riverside, CA
(Drawings K-01, K-02 & K-02.1)

Clay Enterprises

January 17, 2019

41. WALKER MACY UCR PLANT LIST REVIEW

A. Walker Macy UCR Plant List Review

42. BENCHMARK-BASED, WHOLE-BUILDING ENERGY PERFORMANCE TARGETS FOR UC BUILDINGS

<u>A. Benchmark-based, Whole-Building California Institute for Energy and March 2014 Energy Performance Targets for UC Environment Buildings</u>



Geotechnical Engineering Evaluation Report

Pierce Hall Classroom Addition And Building Renovation Project University of California Riverside

Prepared for:
University of California Riverside
1223 University Avenue
Riverside, California 92507

July 8, 2016 Project No.: 160060.3

July 8, 2016 Project No. 160060.3

Mr. Blythe R. Wilson Senior Project Manager University of California Riverside 1223 University Avenue Riverside, California 92507

Subject: Geotechnical Engineering Evaluation Report

Pierce Hall Classroom Addition and Building Renovation Project

University of California Riverside

Riverside, California



OFFICE 562.426.3355

FAX 562,426,6424

WEB twininging.com Dear Mr. Wilson:

In accordance with your request and authorization, we are presenting our Geotechnical Engineering Evaluation Report for the above-referenced project at University of California, Riverside, California. The purpose of this investigation has been to evaluate the subsurface conditions at the site and to provide geotechnical engineering recommendations for the proposed improvements.

Based on our findings, the proposed project is geotechnically feasible, provided that the recommendations in this report are incorporated into the design and are implemented during construction of the project.

We appreciate the opportunity to be of service on this project. Should you have any questions regarding this report or if we can be of further service, please do not hesitate to contact the undersigned.

No.2921 Exp. 9/30/16

Respectfully submitted,

TWINING, INC.

Sean Lin, P.E. 67109, G.E. 2921

Chief Geotechnical Engineer

TABLE OF CONTENTS

			<u>Page</u>
1.	INTR	ODUCTION	1
2.	SITE	DESCRIPTION AND PROPOSED DEVELOPMENT	1
3.	SCO	PE OF WORK	1
	3.1.	LITERATURE REVIEW AND SITE RECONNAISSANCE	1
	3.2.	FIELD EXPLORATION	
	3.3.	GEOTECHNICAL LABORATORY TESTING	
	3.4.	ENGINEERING ANALYSES AND REPORT PREPARATION	2
4.	SITE	GEOLOGY AND SUBSURFACE CONDITIONS	2
	4.1.	REGIONAL GEOLOGIC SETTING	2
	4.2.	SUBSURFACE EARTH MATERIALS	
	4.3.	GROUNDWATER	3
5.	GEOI	LOGIC HAZARDS AND SEISMIC DESIGN CONSIDERATIONS	3
	5.1.	SURFACE FAULT RUPTURE AND ACTIVE FAULTING	
	5.2.	LIQUEFACTION AND SEISMIC SETTLEMENT POTENTIAL	
	5.3.	LANDSLIDES	
	5.4.	FLOODING	
	5.5.	DEAGGREGATED SEISMIC SOURCE PARAMETERS	
	5.6.	CBC SEISMIC DESIGN PARAMETERS	
6.	GEO ⁻	TECHNICAL ENGINEERING RECOMMENDATIONS	
	6.1.	GENERAL CONSIDERATIONS	
	6.2.	SITE PREPARATION AND EARTHWORK	
	6.2.1.		
	6.2.2.		
	6.2.3.		
	6.2.4.	· · · · · · · · · · · · · · · · · · ·	
	6.2.5. 6.2.6.	1 7	
	6.2.7.	· · · · · · · · · · · · · · · · · · ·	
	6.2.8.		
	6.2.9.	11 7	
		FOUNDATION RECOMMENDATIONS	
	6.4.	CONCRETE SLABS	8
	6.5.	RETAINING WALLS	10
	6.5.1.	Lateral Earth Pressure	10
	6.5.2.	5	
		EXPANSIVE SOILS	
		CORROSIVE SOILS	
	6.7.1.		
	6.7.2.		
		FLEXIBLE PAVEMENT DESIGN	
	6.9. 6.10.	RIGID PAVEMENT DESIGN	
7.	GFNI	ERAL SITE GRADING RECOMMENDATIONS	13

8.	8. DESIGN REVIEW AND CONSTRUCTION MONITORING		15
8	3.1.	PLANS AND SPECIFICATIONS	15
8	3.2.	CONSTRUCTION MONITORING	15
9.	LIMI	TATIONS	15
10.	SELI	FCTFD RFFFRFNCFS	17

Figures

Figure 1 – Site Location Map

Figure 2 - Site and Boring Location Map

Figure 3 - Regional Geologic Map

Figure 4 – Liquefaction Potential Map

Appendices

Appendix A – Field Exploration Appendix B – Laboratory Testing

1. INTRODUCTION

This report presents the results of Twining, Inc.'s (Twining) geotechnical engineering evaluation performed for Pierce Hall Classroom Addition and Building Renovation project at University of California Riverside (UCR), California. The site location is shown on the Figure 1, Site Location Map. The purpose of this study has been to evaluate the subsurface conditions at the sites and to provide geotechnical recommendations related to the design and construction of the proposed project.

2. SITE DESCRIPTION AND PROPOSED DEVELOPMENT

The proposed addition site is located at the north and east side of the existing Pierce Hall building within the UCR campus, in the City of Riverside California. The site currently consists of asphalt parking area, loading dock, trash enclosure and a grass lawn with several mature trees. The grass lawn located on the east side of Pierce Hall is approximate 5 feet higher than the parking lot.

The approximate site coordinates are latitude 33.9747°N and longitude 117.3270°W. The site is relatively level with a surface elevation at approximately 1080 feet above mean sea level (MSL).

Based on the conceptual plan provided to us, the proposed project will consist of renovation of the existing Pierce Hall and construction of new classroom additions. The new additions are expected to be 2-story classroom buildings. The preliminary building locations are depicted on Figure 2, Site Plan and Boring Location Map.

3. SCOPE OF WORK

To prepare this report, we have performed the following tasks:

3.1. Literature Review and Site Reconnaissance

We reviewed readily available background data, including in-house geotechnical data, and published geologic maps, topographic maps, seismic hazard maps and literature, and flood hazard maps relevant to the subject site. The list of documents reviewed is presented in the "References" section of this report.

We performed a geotechnical site reconnaissance on January 26, 2016 to observe the general surficial conditions at the site, select boring locations, and coordinate clearance of utilities with UCR personnel.

3.2. Field Exploration

The field exploration consisting of three exploratory borings was conducted at the site on June 15, 2016. The borings were advanced to approximate depths ranging from 26½ feet to 51½ feet below existing grades. The approximate locations of the exploratory borings are shown on Figure 2, Site and Boring Location Map.

The drilling operation was performed using a truck-mounted, hollow-stem auger drill rig. The materials encountered in the borings were logged by our field personnel. Detailed exploration information for the soil borings is presented in Appendix A, Field Exploration.

3.3. Geotechnical Laboratory Testing

Laboratory tests were performed on selected samples obtained from the boring in order to aid in the soil classification and to evaluate the engineering properties of the foundation soils. Laboratory tests included moisture and density, sieve analysis, maximum density, direct shear, consolidation, R-value and soil corrosivity. Detailed laboratory test results are presented in Appendix B.

3.4. Engineering Analyses and Report Preparation

We compiled and analyzed the data collected from our site reconnaissance, subsurface evaluation, and laboratory testing, and prepared this report to present our conclusions and recommendations, including:

- Evaluation of general subsurface conditions and description of types, distribution, and engineering characteristics of subsurface materials;
- Evaluation of geologic hazards, including site seismicity, liquefaction and seismic settlement potential, and preliminary recommendations for appropriate mitigation measures;
- Evaluation of site-specific seismic design parameters in accordance with 2013 California Building Code;
- Evaluation of current and historical groundwater conditions at the site and potential impact on the existing structures;
- Evaluation of project feasibility and suitability of on-site soils for foundation support;
- Preparation of recommendations for site grading and subgrade preparation;
- Evaluation of foundation design parameters including soil bearing capacity, lateral resistance, friction coefficient, and seismic considerations; and
- Evaluation of the potential for the on-site materials to corrode buried concrete and metals.

4. SITE GEOLOGY AND SUBSURFACE CONDITIONS

4.1. Regional Geologic Setting

According to the Geologic Map of the Riverside East 7.5 Minute Quadrangle (USGS, 1988), the project site is underlain by very old alluvial fan deposits (map symbol: Qvof). These deposits are described as indurated sandy sediments which are capped locally by well-developed pedogenic soils or by Holocene alluvial deposits. A portion of the geologic map is reproduced as Figure 3, Regional Geologic Map.

4.2. Subsurface Earth Materials

Earth materials encountered during our subsurface investigation consist of a thin layer of undocumented fill underlain by Very Old Alluvial Fan Deposits (map symbol: Qvof) which extend to the total depth of exploration. Based on our field observations, the undocumented fill consists of silty sand on the order of 1 to 2 feet in thickness. It should be noted that the undocumented fill thickness may vary across the site. The old alluvial deposits consist of predominately silty sand and sand.

4.3. Groundwater

Groundwater was not encountered within the deepest exploratory boring at a depth of approximately 51½ feet below the existing grade. Based on our review of the California Water Resource website, the groundwater level is reportedly situated at a depth greater than 150 feet below the ground surface. Groundwater conditions may vary across the site due to stratigraphic and hydrologic conditions, and may change over time as a consequence of seasonal and meteorological fluctuations, or of activities by humans at this and nearby sites.

GEOLOGIC HAZARDS AND SEISMIC DESIGN CONSIDERATIONS

The site is located in a seismically active area, as is the majority of southern California, and the potential for strong ground motion in the project area is considered high during the design life of the proposed improvements. The hazards associated with seismic activity in the vicinity of the site are discussed in the following sections.

5.1. Surface Fault Rupture and Active Faulting

The subject site is not located within a State of California Earthquake Fault Zone (formerly known as a Special Studies Zone) (Hart and Bryant, 1997). The closest know active fault to the site is the San Jacinto fault, located approximately 8.07km away from the project site. It is our opinion that the likelihood of fault rupture occurring at the site during the design life of the proposed improvements is low.

5.2. Liquefaction and Seismic Settlement Potential

Liquefaction occurs when the pore pressures generated within a soil mass approach the effective overburden pressure. Liquefaction of soils may be caused by cyclic loading such as that imposed by ground shaking during earthquakes. The increase in pore pressure results in a loss of strength, and the soil then can undergo both horizontal and vertical movements, depending on the site conditions. Other phenomena associated with soil liquefaction include sand boils, ground oscillation, and loss of foundation bearing capacity. Liquefaction is generally known to occur in loose, saturated, relatively clean, fine-grained cohesionless soils at depths shallower than approximately 50 feet. Factors to consider in the evaluation of soil liquefaction potential include groundwater conditions, soil type, grain size distribution, relative density, degree of saturation, and both the intensity and duration of ground motion.

The site is located within an area designated as having "Low" liquefaction susceptibility according to the Riverside County (2015) General Plan Safety Element. Based on lack of groundwater table shallower than 50 feet and the relatively dense soils encountered at the site, it is our opinion that the potential for liquefaction at this site is low.

Seismic settlement can occur when medium dense granular materials densify during seismic shaking and/or liquefaction. Seismically-induced settlement may occur in dry, unsaturated, as well as saturated soils. Based on the fairly uniform and medium dense to dense subsurface soil profile, the potential for seismically-induced dry-sand settlement is considered low.

5.3. Landslides

Based on our review of the referenced geologic maps, literature, topographic maps, aerial photographs, and our subsurface evaluation, no landslides or related features underlie or are adjacent to the subject site. Due to the relatively level nature of the site and surrounding areas, the potential for landslides at the project site is considered negligible.

5.4. Flooding

The Federal Emergency Management Agency (FEMA) has prepared flood insurance rate maps (FIRMs) for use in administering the National Flood Insurance Program. Based on our review of the FEMA (2008) flood map, the site is outside the 0.2% annual chance (500-year) floodplain.

5.5. Deaggregated Seismic Source Parameters

Our recommendations for design earthquake magnitude parameters have been developed in accordance with the USGS Seismic Hazard Interactive Deaggreations webpage $\frac{\text{http://geohazards.usgs.gov/deaggint/2008/}}{\text{por the 2 percent in 50 years chance of exceedance earthquake event. Based on the calculated results, the earthquake magnitude, <math>M_w$ = 7.6 is considered in our seismic analysis.

5.6. CBC Seismic Design Parameters

Our recommendations for seismic design parameters have been developed in accordance with the 2013 California Building Code and ASCE 7-10 (ASCE, 2010) standards. Based on the results of our field investigation the applicable Site Class is D. Table 1 presents the seismic design parameters for the site in accordance with the CBC and mapped spectral acceleration parameters (United States Geological Survey, 2011).

Design Parameters Value Site Class D Mapped Spectral Acceleration Parameter at Period of 0.2-Second, S_s 1.500g Mapped Spectral Acceleration Parameter at at Period 1-Second, S_1 0.614g 1.0 Site Coefficient, F_a 1.5 Site Coefficient, F_{ν} Adjusted MCE_R¹ Spectral Response Acceleration Parameter at Short Period, S_{MS} 1.500g 1-Second Period Adjusted MCE_R¹ Spectral Response Acceleration Parameter, S_{M1} 0.614g Short Period Design Spectral Response Acceleration Parameter, S_{DS} 1.000g 1-Second Period Design Spectral Response Acceleration Parameter, S_{D1} 0.614g Peak Ground Acceleration, PGA_M² 0.565g Seismic Design Category³ D Notes: 1 Risk-Targeted Maximum Considered Earthquake

Table 1 – 2013 California Building Cod Design Parameters

³ For S₁ greater than or equal to 0.75g, the Seismic Design Category is E

² Peak Ground Acceleration adjusted for site effects

6. GEOTECHNICAL ENGINEERING RECOMMENDATIONS

6.1. General Considerations

Based on the results of our field exploration and engineering analyses, it is our opinion that the proposed development is feasible from a geotechnical standpoint, provided that the recommendations in this report are incorporated into the design plans and are implemented during construction.

The site is underlain by a thin layer of undocumented fill followed by relative uniform medium dense to dense very old alluvial fan deposits. We expect that the upper 3 feet of soil will be disturbed during demolition of the existing onsite structures, trees and vegetation. It is our opinion that the proposed building should be supported on conventional spread footings embedded in compacted fill approved by Geotechnical Engineer during construction.

Our geotechnical engineering analyses performed for this report were based on the earth materials encountered during the subsurface exploration for the site. If the design substantially changes, then our geotechnical engineering recommendations would be subject to revision based on our evaluation of the changes. The following sections present our conclusions and recommendations pertaining to the engineering design for this project.

6.2. Site Preparation and Earthwork

In general, earthwork should be performed in accordance with the recommendations presented in this report. Twining should be contacted for questions regarding the recommendations or guidelines presented herein.

6.2.1. Site Preparation

Site preparation should begin with the removal of any utility lines, asphalt, concrete, vegetation, and other deleterious debris from areas to be graded. Tree stumps and roots should be removed to such a depth that organic material is generally not present. Clearing and grubbing should extend to the outside edges of the proposed excavation and fill areas. We recommend that unsuitable materials such as organic matter or oversized material be selectively removed and disposed offsite. The debris and unsuitable material generated during clearing and grubbing should be removed from areas to be graded and disposed at a legal dump site away from the project area.

6.2.2. Overexcavation

It is expected that surficial soil will be disturbed due to removal of the existing site structures and vegetation. To prepare a relatively uniform support for foundation and slab support, overexcavation should be at least 3 feet below the existing ground surface, or 1 foot below the proposed bottom of footings, whichever is deeper. The lateral extent of the overexcavation should be at least 5 feet beyond the edge of the building footprints, where space is available. Deeper excavations may be required in areas where loose or unsuitable materials, for example, tree root balls or undocumented fill are encountered.

Other site improvements, such as pavement, sidewalk and hardscape, should be overexcavated to a depth of at least 1 foot below the existing ground surface or at least 1 foot below the proposed subgrade, whichever is deeper.

The extent and depths of removal should be evaluated by Twining's representative in the field based on the materials exposed during grading. Additional removals may be recommended if loose or soft soils are exposed.

6.2.3. Materials for Fill

On-site soils with an organic content of less than 3 percent by volume (or 1 percent by weight) are suitable for use as fill. Soil material to be used as fill should not contain contaminated materials, rocks, or lumps over 4 inches in largest dimension, and not more than 40 percent larger than $\frac{3}{4}$ inch. Utility trench backfill material should not contain rocks or lumps over 3 inches in largest dimension. Larger chunks, if generated during excavation, may be broken into acceptably sized pieces or may be disposed offsite.

Any imported fill material should consist of granular soil having a "very low" expansion potential (that is, expansion index of 20 or less). Import material should also have low corrosion potential (that is, chloride content less than 500 parts per million [ppm], soluble sulfate content of less than 0.1 percent, and pH of 5.5 or higher). Materials to be used as fill should be evaluated by a Twining representative prior to importing or filling.

6.2.4. Compacted Fill

Prior to placement of compacted fill, the contractor should request an evaluation of the exposed excavation bottom by Twining. Unless otherwise recommended, the exposed ground surface should then be scarified to a depth of approximately 6 inches and watered or dried, as needed, to achieve generally consistent moisture contents at or near the optimum moisture content. The scarified materials should then be compacted to 90 percent relative compaction in accordance with the ASTM Test Method D1557.

Fill materials should be moisture conditioned to approximately 2% above optimum moisture content prior to placement. The optimum moisture content will vary with material type and other factors. Moisture conditioning of fill soils should be generally consistent within the soil mass. Continue to place the compacted fill in horizontal lifts of approximately 6 to 8 inches in loose thickness. Each lift should be compacted by mechanical methods, using multiple-wheel pneumatic-tired rollers, sheepsfoot rollers, or other appropriate compacting rollers, to a relative compaction of 90 percent as evaluated by ASTM D1557 test method. Successive lifts should be treated in a like manner until the desired finish grades are achieved.

6.2.5. Temporary Excavations

Temporary excavations for the demolition, earthwork, footings, and utility trenches are expected to be up to 4 feet in height. We anticipate that unsurcharged excavations with vertical side slopes less than 4 feet high will generally be stable; however, some sloughing of relatively loose to medium dense, cohesionless sandy materials encountered at the site should be expected.

Where the space is available, temporary, unsurcharged excavation sides over 4 feet in height should be sloped no steeper than an inclination of 1.5H:1V (horizontal:vertical). Where sloped excavations are created, the tops of the slopes should be barricaded so that vehicles and storage loads do not encroach within 10 feet of the top of the excavated slopes. A greater setback may be necessary when considering heavy vehicles, such as concrete trucks and cranes. Twining should be advised of such heavy vehicle loadings so that specific setback requirements can be

established. If the temporary construction slopes are to be maintained during the rainy season, berms are recommended to be graded along the tops of the slopes in order to prevent runoff water from entering the excavation and eroding the slope faces.

Excavations should not undermine the existing adjacent footings. Where space for sloped excavations is not available, temporary shoring (trench box) may be utilized. Additional temporary shoring recommendations will be provided up on request once detailed information becomes available.

Personnel from Twining should observe the excavation so that any necessary modifications based on variations in the encountered soil conditions can be made. All applicable safety requirements and regulations, including CalOSHA requirements, should be met.

6.2.6. Excavation Bottom Stability

In general, we anticipate that the bottoms of the excavations will be stable and should provide suitable support to the proposed improvements. Unstable bottom conditions may be mitigated by overexcavation of the bottom to suitable depths and replacement with an18-inch-thick layer of gravel, aggregate base or lean concrete mud mat. Any loose, soft, or deleterious material should be removed prior to placement of gravel or lean concrete. Recommendations for stabilizing excavation bottoms should be based on evaluation in the field by the geotechnical consultant at the time of construction.

6.2.7. Construction Dewatering

Due to the absence of shallow groundwater, dewatering measures are not anticipated to be necessary during excavation operations. If needed, considerations for construction dewatering should include anticipated drawdown, volume of pumping, potential for settlement of nearby structures, and groundwater discharge. Disposal of groundwater should be performed in accordance with guidelines of the Regional Water Quality Control Board.

6.2.8. Rippability

Based on our subsurface exploration of the site, the fill a materials should be generally excavatable with heavy-duty earthwork equipment in good working condition. Some gravels or cobbles or man-made debris should be expected within the fill soils.

6.2.9. Shrinkage/Bulking Due to Compaction

Based on our review of the in-situ density of the near surface soils, we estimated the volumetric shrinkage as a result of compaction of onsite soil is expected to be on the order of 5 to 10 percent.

6.3. Foundation Recommendations

A shallow foundation system may be used for support of the proposed building, provided that all the footings are placed on engineered fill prepared as described in the "Site Preparation and Earthwork" section of this report. Our geotechnical design parameters are presented in Table 2.

Table 2 – Geotechnical Design Parameters for Continuous and Spread Footings

Minimum Footing Dimensions	 Square footing should be at least 24 inches in width and the bottom of footing should be embedded at least 24 inches below the lowest adjacent grade. Continuous footing should be at least 18 inches in width and the bottom of footing should be embedded at least 24 inches below the lowest adjacent grade. 	
	For the minimum dimensions shown above, an allowable bearing pressure of 2,500 pounds per square foot (psf) can be used.	
Allowable Bearing Pressure	Bearing capacity can increase 300 psf for each additional foot of width, and 450 psf for each additional foot of depth to a maximum allowable capacity of 4,000 psf	
	The allowable bearing values may be increased by one-third for transient live loads from wind or earthquake.	
Estimated Static Settlement	• Less than ½ inch total settlement with differential settlement estimated to be less than ¼ inch over 30 feet.	
Allowable Coefficient of Friction Below Footings	0.35	
Unfactored Lateral Passive Resistance	300 pcf (equivalent fluid pressure)	

The total allowable lateral resistance can be taken as the sum of the friction resistance and passive resistance. The passive resistance values may be increased by one-third when considering wind or seismic loading.

6.4. Concrete Slabs

Slabs should be supported at grade on engineered fill in accordance with the recommendations of this report. For design of concrete slabs, a modulus of subgrade reaction (k) of 150 pounds per cubic inch (pci) may be used for slabs on compacted, engineered fill.

Floor slabs should be designed and reinforced in accordance with the structural engineer's recommendations. However, for slabs not supporting heavy loads, we recommend that the concrete should have a thickness of at least 4 inches, a 28-day compressive strength of at least 3,000 pounds per square inch (psi), a water-cement ratio of 0.50 or less, and a slump of 4 inches or less. Slabs reinforcement and control joints should be designed and constructed in accordance with recommendations from the structural engineer or architect. For slabs supporting equipment, a minimum thickness of 5 inches is recommended. Additional thickness and reinforcement recommendations may be provided by the structural engineer.

The topmost 12 inches below the slab subgrade should be maintained in a moisture condition of approximately 0 to 2 percent above optimum moisture content. The slab subgrade should be tested

for moisture and compaction immediately prior to placement of the gravel or sand base, if any. All underslab materials should be adequately compacted prior to the placement of concrete. Care should be taken during placement of the concrete to prevent displacement of the underslab materials. The underslab material should be dry or damp and should not be saturated prior to the placement of concrete. The concrete slab should be allowed to cure properly and should be tested for moisture transmission prior to placing vinyl or other moisture-sensitive floor covering.

Table 3 provides recommendations for various levels of protection against vapor transmission through concrete floor slabs placed over a properly prepared subgrade. Care should be taken not to puncture the plastic membrane during placement of the membrane itself and the overlying silty sand.

Table 3 – Options for Subgrade Preparation below Concrete Floor Slabs

Primary Objective	Recommendation	
	 Concrete floor slab-on-grade may be placed directly on a 15-mil thick moisture vapor retarder that meets the requirements of ASTM E 1745 Class C (Stego Wrap or similar). 	
Enhanced protection against vapor transmission	 The moisture vapor retarder membrane may be placed directly on the subgrade (ACl302.1R-67); if required for either leveling of the subgrade or for protection of the membrane from protruding gravel, then place about 2 inches of silty sand¹ under the membrane. 	
	 Special consideration for curing the concrete, such as wet curing, should be made if concrete is placed directly on the impermeable vapor retarder. 	
Above-standard protection against vapor transmission	This option is available if the slab perimeter is bordered by continuous footings at least 24 inches deep, OR if the area adjacent and extending at least 10 feet from the slab is covered by hardscape without planters: • 2 inches of dry silty sand¹; over • Waterproofing plastic membrane 10-mil thick; over • At least 4 inches of ¾-inch crushed rock² or clean gravel³ to act as a capillary break	
Standard protection against vapor transmission	 2 inches of dry silty sand¹; over Waterproofing plastic membrane 10-mil thick. If required for either leveling of the subgrade or for protection of the membrane from protruding gravel, place at least 2 inches of silty sand¹ under the membrane. 	

Notes: ¹ The silty sand should have a gradation between approximately 15 and 40 percent passing the No. 200 sieve and a plasticity index (PI) of less than 4.

- ² The ¾-inch crushed rock should conform to Section 200-1.2 of the latest edition of the "Greenbook" Standard Specifications for Public Works Construction (BNI Publications, Inc., 2012).
- ³ The gravel should contain less than 10 percent of material passing the No. 4 sieve and less than 3 percent passing the No. 200 sieve.

The recommendations presented above are intended to reduce the potential for cracking of slabs; however, even with the incorporation of the recommendations presented herein, slabs may still exhibit some cracking. The occurrence of concrete shrinkage cracks is independent of the supporting soil characteristics.

6.5. Retaining Walls

Although not specified in the plan, some short retaining walls may be constructed at the site. For a wall less than 6 feet in height, the following recommendations can be used for structural design. For a wall taller than 6 feet in height, detailed wall information should be reviewed by Twining to provide further recommendations.

6.5.1. Lateral Earth Pressure

The values presented below assume that the supported grade is level and do not include surcharge loads. The recommended design lateral earth pressure is calculated assuming that a drainage system will be installed behind the retaining walls and that external hydrostatic pressure will not develop behind the wall.

For walls that are free to rotate at the top (such as cantilevered walls), the lateral earth pressure may be designed for the "active" earth pressure in terms of equivalent fluid pressure (EFP) of 35 pcf. Walls that are supporting earth that are restrained against rotation at the top (such as by a floor deck), may be designed for the "at-rest" earth pressure in terms of EFP of 60 pcf.

Vertical surcharge loads within a 1:1 projection from the bottom of the wall distributed over retained soils should be considered as additional uniform horizontal pressure acting on the wall. The additional horizontal pressure acting on the wall can be estimated as approximately 35% and 55% of the magnitude of the vertical surcharge pressure for the "active" and "at-rest" conditions, respectively. All permanent surcharge loading conditions should be evaluated on a case-by-case basis by the geotechnical engineer.

6.5.2. Backfill and Drainage of Walls

The backfill material behind walls should consist of granular non-expansive material and should be approved by the project geotechnical engineer. Based on the soil materials encountered during our exploration, the majority of on-site soils should meet this requirement. Retaining walls should be waterproofed and adequately drained in order to limit hydrostatic buildup behind walls. Wall drainage may be provided by a geosynthetic drainage composite such as TerraDrain®, MiraDrain®, or equivalent, attached to the outside perimeter of the wall. The drain should be placed continuously along the back of the wall and connected to a 4-inch-diameter perforated pipe with perforation facing down. The pipe should be sloped at least 1% and should be surrounded by 1 cubic foot per foot of $\frac{3}{4}$ -inch crushed rock wrapped in suitable non-woven filter fabric (Mirafi®

140NL or equivalent). The crushed rock should meet the requirements defined in Section 200-1.2 of the latest edition of The "Greenbook" Standard Specifications for Public Works Construction. The drain should discharge through a solid pipe to an appropriate outlet.

6.6. Expansive Soils

Expansive soils are characterized by their ability to undergo significant volume changes (shrink or swell) due to variations in moisture content. Changes in soil moisture content can result from rainfall, landscape irrigation, utility leakage, roof drainage, perched groundwater, drought, or other factors, and may cause unacceptable settlement or heave of structures, concrete slabs supported on-grade, or pavements supported over these materials. Depending on the extent and location below finished subgrade, these soils could have a detrimental effect on the proposed construction.

Based on our soil classification of the near-surface soils, it is our opinion that the exposed soil has a very low potential. Mitigation to expansive soil is not required.

6.7. Corrosive Soils

In accordance with the Caltrans (2014) criteria, the corrosive soil is defined when having minimum resistivity less than 1,000 ohm-centimeters, or chloride concentration greater than 500 ppm, or sulfate concentration in soils greater than 2,000 ppm, or a pH less than 5.5.

Laboratory testing was performed on representative sample of on-site soil to evaluate soil pH, electrical resistivity, water-soluble chloride content, and water-soluble sulfate content. The laboratory test results are presented in Appendix B. Based on the laboratory test results, the site soil is non-corrosive.

6.7.1. Reinforced Concrete

Laboratory tests indicate that the potential of sulfate attack on concrete in contact with the on-site soils is "negligible" based on ACI 318, Table 4.3.1. Due to the potential variablity of site soils, we recommend Type II/V cement for concrete with water-cement ratio no greater than 0.5 be used on the project.

6.7.2. Metallic

Laboratory resistivity testing indicates that the on-site soils are not considerred corrosive to buried ferrous metals. Additional recommendations may be provided by a corrision engineer.

6.8. Flexible Pavement Design

Our pavement structural design is in accordance with Chapter 600 of the Caltrans Highway Design Manual, which is based on a relationship between the gravel equivalent (GE) of the pavement structural materials, the traffic index (TI), and the R-value of the underlying subgrade soil.

We recommend that the existing subgrade should be scarified to a depth of at least 8 inches, moisture conditioned to approximately 2 percent above the optimum moisture content, and compacted to at least 95 percent of the maximum dry density as determined from the latest version of ASTM D 1557. The compacted subgrade should be firm and non-yielding checked by proof-rolling prior to placement of aggregate base. Once the subgrade has been approved, the aggregate base course layer should be

placed and compacted to a minimum of 95 percent of the maximum dry density as evaluated by the latest version of ASTM D 1557.

We assumed an R-value of 49 for the subgrade material for asphalt pavement structural calculations with assumed TI since no traffic study data is available to us. On this basis, Table 4 and Table 5 provide recommended minimum thicknesses for flexible pavement structural sections for different traffic indices.

Table 4 – Recommended Minimum HMA and Base Section Thicknesses

Traffic Index	5.0	6.0	7.0
HMA Thickness (in)	2.0	3.0	4.0
Aggregate Base Thickness (in)	4.0	4.0	4.5

Table 5 – Recommended Minimum Full-depth HMA Section Thicknesses

Traffic Index	5.0	6.0	7.0
HMA Thickness (in)	4.0	5.0	6.5

6.9. Rigid Pavement Design

Table 6 provides minimum thicknesses for Portland Cement Concrete (PCC) pavement sections constructed on top of properly prepared subgrade.

Table 6 – Recommended Minimum PCC Section Thicknesses

Traffic Index	5.0	6.0	7.0
PCC Thickness (in)	6.0	6.25	6.5

The above pavement section is based on a minimum 28-day Modulus of Rupture (M-R) of 550 psi and a compressive strength of 3,000 psi. Transverse contraction joints should not be spaced more than 15 feet and should be cut to a depth of ¼ the thickness of the slab. Longitudinal joints should not be spaced more than 15 feet apart, however, are not necessary in the pavement adjacent to the curb and gutter section. Positive drainage should be provided away from all pavement areas to prevent seepage of surface and/or subsurface water into the pavement base and/or subgrade. The subgrade surface should be scarified to a depth of approximately 6 inches and watered or dried, as needed, to achieve generally consistent moisture contents at or near the optimum moisture content. The scarified materials should then be compacted to 95 percent relative compaction in accordance with the ASTM Test Method D1557.

6.10. Drainage Control

The control of surface water is essential to the satisfactory performance of the site improvements. Surface water should be controlled so that conditions of uniform moisture are maintained beneath the structure, even during periods of heavy rainfall. The following recommendations are considered minimal:

- Ponding and areas of low flow gradients should be avoided.
- If bare soil within 5 feet of the structure is not avoidable, then a gradient of 5 percent or more should be provided sloping away from the improvement. Corresponding paved surfaces should be provided with a gradient of at least 1 percent.
- The remainder of the unpaved areas should be provided with a drainage gradient of at least 2
 percent.
- Positive drainage devices, such as graded swales, paved ditches, and/or catch basins should be employed to accumulate and to convey water to appropriate discharge points.
- Concrete walks and flatwork should not obstruct the free flow of surface water.
- Brick flatwork should be sealed by mortar or be placed over an impermeable membrane.
- Area drains should be recessed below grade to allow free flow of water into the basin.
- Enclosed raised planters should be sealed at the bottom and provided with an ample flow gradient to a drainage device. Recessed planters and landscaped areas should be provided with area inlet and subsurface drain pipes.
- Planters should not be located adjacent to the structure wherever possible. If planters are to be located adjacent to the structure, the planters should be positively sealed, should incorporate a subdrain, and should be provided with free discharge capacity to a drainage device.
- Planting areas at grade should be provided with positive drainage. Wherever possible, the
 grade of exposed soil areas should be established above adjacent paved grades. Drainage
 devices and curbing should be provided to prevent runoff from adjacent pavement or walks
 into planted areas.
- Gutter and downspout systems should be provided to capture discharge from roof areas. The
 accumulated roof water should be conveyed to off-site disposal areas by a pipe or concrete
 swale system.
- Landscape watering should be performed judiciously to preclude either soaking or desiccation
 of soils. The watering should be such that it just sustains plant growth without excessive
 watering. Sprinkler systems should be checked periodically to detect leakage and they should
 be turned off during the rainy season.

7. GENERAL SITE GRADING RECOMMENDATIONS

Site grading operations should conform with applicable local building and safety codes and to the rules and regulations of those governmental agencies having jurisdiction over the subject construction.

The grading contractor is responsible to notify governmental agencies, as required, and a representative of Twining at the start of site cleanup, at the initiation of grading, and any time that grading operations are resumed after an interruption. Each step of the grading should be evaluated in a specific area by a representative of Twining and, where required, should be approved by the applicable governmental agencies prior to proceeding with subsequent work.

The following site grading recommendations should be regarded as minimal. The site grading recommendations should be incorporated into the project plans and specifications.

 Prior to grading, existing vegetation, trash, surface structures and debris should be removed and disposed off-site at a legal dumpsite. Any existing utility lines, or other subsurface structures, which are not to be utilized should be removed, destroyed, or abandoned in compliance with current governmental regulations and with concurrence from Twining, Inc.

- Subsequent to clearing and grubbing, and prior to initial grading, a reasonable search should be made for subsurface obstructions and/or possible loose fill or detrimental soil types. This search should be conducted by the contractor, with advice from and under the observation of a representative of Twining, Inc.
- 3. Fill should be spread in 6- to 8-inch lifts and should be moisture conditioned and compacted in accordance with the recommendations presented in the Site Preparation and Earthwork section of this report. All undocumented fill or unsuitable soils within the building areas should be removed and compacted under observation and testing of a representative of Twining.
- 4. The exposed subgrade and/or excavation bottom should be observed and evaluated by a representative of Twining for conformance with the intent of the recommendations presented in this report and prior to any further processing or fill placement. <u>It should be understood that the actual encountered conditions may warrant excavation and/or subgrade preparation beyond the extent recommended and/or anticipated in this report.</u>
- On-site inorganic granular soils that are free of debris or contamination and are not greater than 6
 inches in largest dimension are considered suitable for placement as compacted fill. A
 representative of Twining, Inc. should provide guidance for suitability and placement of on-site
 clay fill materials.
- 6. Observation and field tests shall be performed during grading by a representative of Twining, Inc. in order to assist the contractor in obtaining the proper moisture content and required degree of compaction. Where less than the required degree of compaction is indicated, additional compactive effort and any necessary adjustments in the moisture content of the soil should be made to obtain the required compaction.
- 7. To evaluate the presence of satisfactory materials at design elevations, footing excavations should be observed to be clean of loosened soil and debris before placing steel or concrete and probed for soft areas. If soft or loose soils or unsatisfactory materials are encountered, these materials should be removed and replaced with compacted fill.
- 8. In the event that underground facilities such as pipes or underground storage tanks are encountered during grading, the appropriate authorities, property owners, and regulatory authorities should be notified. Removal of underground storage tanks is regulated by city or county health departments and/or by the fire department. In the event that tanks containing unknown substances are encountered, no attempts should be made to remove such objects until their contents have been ascertained and directions issued by competent professionals or regulators. Septic tanks should be removed entirely. Cesspools or seepage pits should be pumped of their contents and removed in their entirety. Water wells should be capped in accordance with the requirements of the appropriate regulatory agencies.
- 9. Wherever, in the opinion of a representative of Twining, Inc., an unsatisfactory condition is being created in any area, whether by cutting or filling, then the work should not proceed in that area until the condition has been corrected.

8. DESIGN REVIEW AND CONSTRUCTION MONITORING

Geotechnical review of plans and specifications is of paramount importance in engineering practice. The poor performance of many structures has been attributed to inadequate geotechnical review of construction documents. Additionally, observation and testing of the subgrade will be important to the performance of the proposed development. The following sections present our recommendations relative to the review of construction documents and the monitoring of construction activities.

8.1. Plans and Specifications

The design plans and specifications should be reviewed by Twining, Inc. prior to bidding and construction, as the geotechnical recommendations may need to be reevaluated in the light of the actual design configuration and loads. This review is necessary to evaluate whether the recommendations contained in this report and future reports have been properly incorporated into the project plans and specifications. Based on the work already performed, this office is best qualified to provide such review.

8.2. Construction Monitoring

Site preparation, removal of unsuitable soils, assessment of imported fill materials, fill placement, foundation installation, and other site grading operations should be observed and tested, as appropriate. The substrata exposed during the construction may differ from that encountered in the test excavations. Continuous observation by a representative of Twining, Inc. during construction allows for evaluation of the soil conditions as they are encountered, and allows the opportunity to recommend appropriate revisions where necessary.

9. LIMITATIONS

The recommendations and opinions expressed in this report are based on Twining, Inc.'s review of available background documents, on information obtained from field explorations, and on laboratory testing. It should be noted that this study did not evaluate the possible presence of hazardous materials on any portion of the site. In the event that any of our recommendations conflict with recommendations provided by other design professionals, we should be contacted to aid in resolving the discrepancy.

Due to the limited nature of our field explorations, conditions not observed and described in this report may be present on the site. Uncertainties relative to subsurface conditions can be reduced through additional subsurface exploration. Additional subsurface evaluation and laboratory testing can be performed upon request. It should be understood that conditions different from those anticipated in this report may be encountered during grading operations, for example, the extent of removal of unsuitable soil, and that additional effort may be required to mitigate them.

Site conditions, including groundwater elevation, can change with time as a result of natural processes or the activities of man at the subject site or at nearby sites. Changes to the applicable laws, regulations, codes, and standards of practice may occur as a result of government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Twining, Inc. has no control.

Twining's recommendations for this site are, to a high degree, dependent upon appropriate quality control of subgrade preparation, fill placement, and foundation construction. Accordingly, the recommendations are made contingent upon the opportunity for Twining to observe grading operations and foundation

excavations for the proposed construction. If parties other than Twining are engaged to provide such services, such parties must be notified that they will be required to assume complete responsibility as the geotechnical engineer of record for the geotechnical phase of the project by concurring with the recommendations in this report and/or by providing alternative recommendations.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Twining should be contacted if the reader requires additional information or has questions regarding the content, interpretations presented, or completeness of this document.

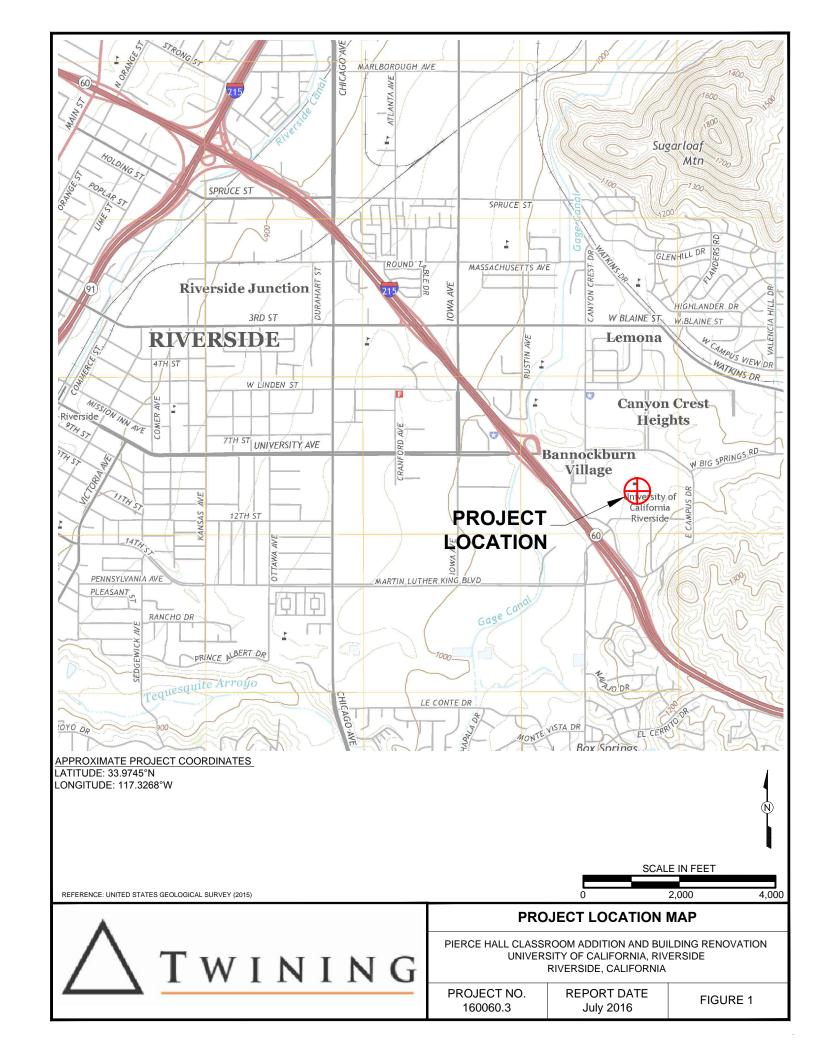
This report has been prepared for the exclusive use by the client and its agents for specific application to the proposed project. Land use, site conditions, or other factors may change over time, and additional work may be required with the passage of time. Based on the intended use of this report and the nature of the new project, Twining may require that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements by the Client or anyone else will release Twining from any liability resulting from the use of this report by any unauthorized party.

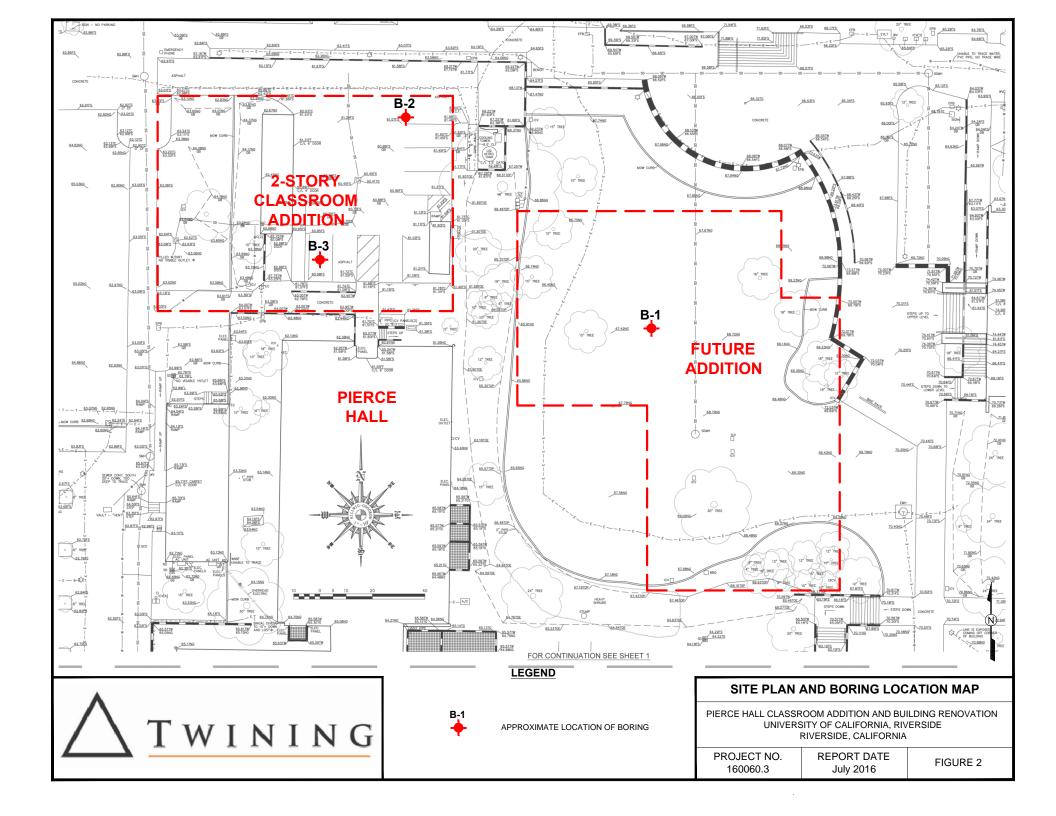
Twining performed its evaluation using the degree of care and skill ordinarily exercised under similar circumstances by reputable geotechnical professionals with experience in this area in similar soil conditions. No other warranty, either express or implied, is made as to the conclusions and recommendations contained in this report.

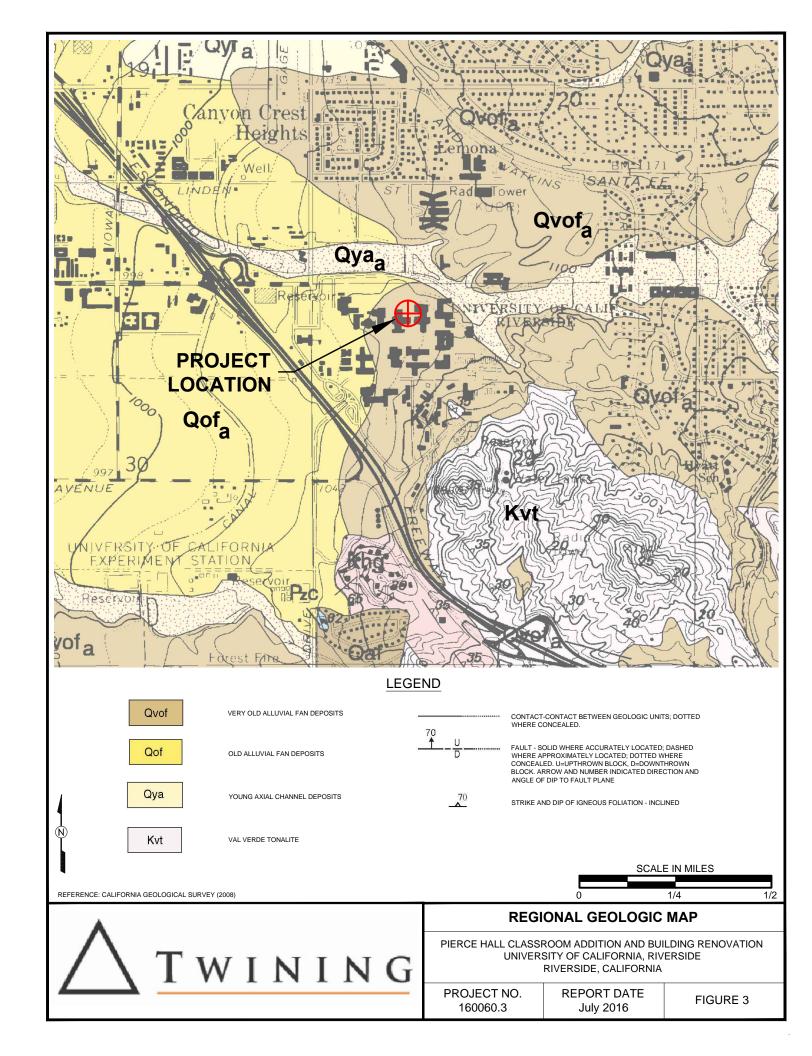
10. SELECTED REFERENCES

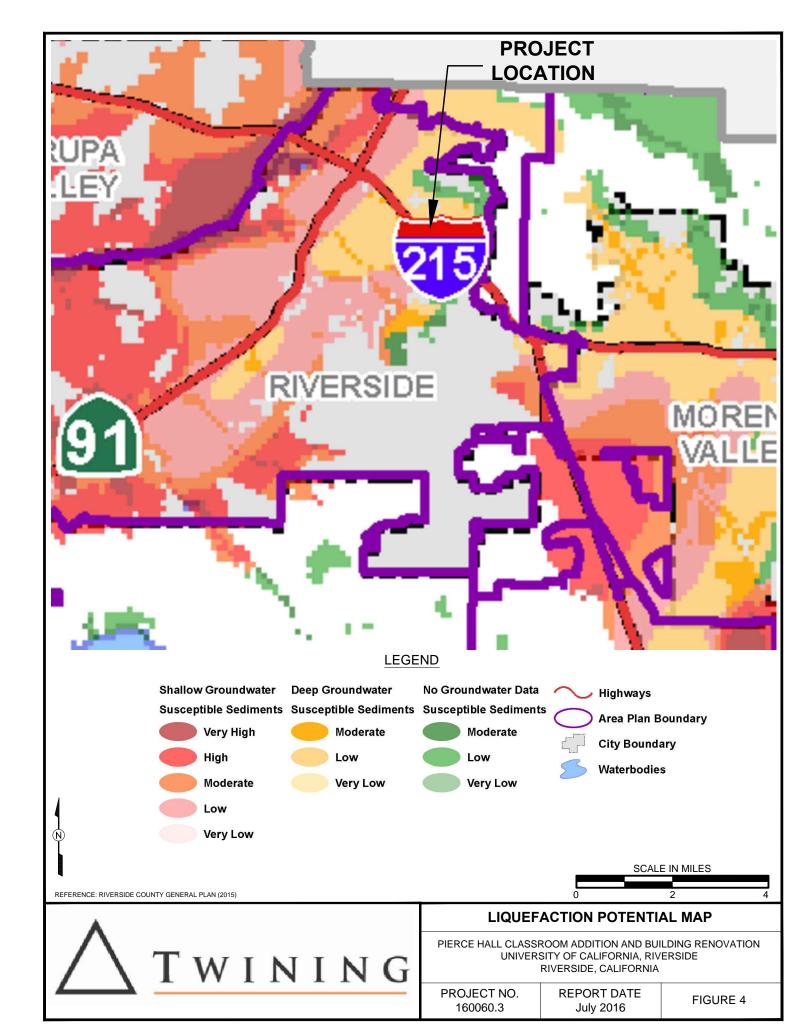
- American Society of Civil Engineers, 2011, Minimum Design Loads for Buildings and Other Structures: ASCE Standard ASCE/SEI 7-10, 608 pp.
- ASTM, 2012, "Soil and Rock: American Society for Testing and Materials," vol. 4.08 for ASTM test methods D-420 to D-4914; and vol. 4.09 for ASTM test methods D-4943 to highest number.
- California Department of Conservation, California Geological Survey, 2008, Guidelines for Evaluation and Mitigation of Seismic Hazards in California: Special Publication 117A, 98 pp.
- County of Riverside, 2015, General Plan.
- Frankel, A.D., Petersen, M.D., Mueller, C.S., Haller, K.M., Wheeler, R.L., Leyendecker, E.V., Wesson, R.L., Harmsen, S.C., Cramer, C.H., Perkins, D.M., and Rukstales, K.S., 2002, 2002 Update of the National Seismic Hazard Maps: United States Geological Survey Open File Report 02-420.
- Jennings, C.W., and Bryant, W.A., 2010, Fault activity map of California: California Geological Survey Geologic Data Map No. 6, scale 1:750,000.
- Naval Facilities Engineering Command, 1986, NAVFAC Design Manual.
- Southern California Earthquake Center, 1999, Recommended Procedures for Implementation of DMG Special Publication 117 Guidelines for Analyzing and Mitigating Liquefaction in California: dated March, 63 pp.
- Toppozada, T., Branum, D., Petersen, M., Hallstrom, C., Cramer, C., and Reichle, M., 2000, Epicenters of and Areas Damaged by M≥5 California Earthquakes, 1800-1999: California Department of Conservation, Division of Mines and Geology Map Sheet 49, scale 1"=40 km.
- United States Geological Survey, 2015, Riverside East Quadrangle: 7.5 Minute Series (Topographic), scale 1:24,000.
- United States Geological Survey, 1998, Geologic Map of the Riverside East 7.5 Minute Quadrangles, California, scale 1:24,000.

FIGURES









Appendix A Field Exploration

Appendix A Field Exploration

General

The subsurface exploration program for the proposed project consisted of drilling and logging three 8-inch diameter exploratory borings conducted at the site on June 15, 2016. The borings were advanced to approximate depth ranging between 26.5 feet and 51.5 feet below the existing grades. Drilling operations were performed with a truck-mounted CME-75 hollow-stem-auger drill rig supplied by 2R Drilling of Chino, California.

Drilling and Sampling

The Boring Logs are presented as Figures A-2 through A-4. An explanation of these logs is presented as Figure A-1. The Boring Logs describe the earth materials encountered, samples obtained, and show the field and laboratory tests performed. The log also shows the boring number, drilling date, and the name of the logger and drilling subcontractor. The borings were logged by an engineer using the Unified Soil Classification System. The boundaries between soil types shown on the logs are approximate because the transition between different soil layers may be gradual. Drive and bulk samples of representative earth materials were obtained from the borings.

Disturbed samples were obtained using a Standard Penetration Sampler (SPT). This sampler consists of a 2-inch O.D., 1.4-inch I.D. split barrel shaft that is advanced into the soil at the bottom of the drilled hole a total of 18 inches. The number of blows required to drive the sampler the final 12 inches is presented on the boring logs. Soil samples obtained by the SPT were retained in plastic bags.

A California modified sampler was used to obtain drive samples of the soil encountered. This sampler consists of a 3-inch outside diameter (O.D.), 2.4-inch inside diameter (I.D.) split barrel shaft that was driven a total of 12-inches into the soil at the bottom of the boring by a safety hammer weighing 140 pounds at a drop height of approximately 30 inches. The soil was retained in brass rings for laboratory testing. Additional soil from each drive remaining in the cutting shoe was usually discarded after visually classifying the soil. The number of blows required to drive the sampler the final 12 inches is presented on the boring logs.

Upon completion of the borings, the boreholes were backfilled with soil from the cuttings and patched with asphalt cold patch where needed.

		UNIFIED SOIL CLA			
	MAJOR DIVISION	S	SYME GRAPH	LETTER	TYPICAL DESCRIPTIONS
	GRAVEL AND	CLEAN GRAVELS		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
004005	GRAVELLY SOILS	(LITTLE OR NO FINES)		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
COARSE GRAINED SOILS	MORE THAN 50% OF	GRAVELS WITH FINES		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
	COARSE FRACTION RETAINED ON NO. 4 SIEVE	(APPRECIABLE AMOUNT OF FINES)		GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
MORE THAN 50% OF	SAND AND SANDY	CLEAN SANDS		sw	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	SOILS	(LITTLE OR NO FINES)		SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
	MORE THAN 50% OF COARSE FRACTION	SANDS WITH FINES		SM	SILTY SANDS, SAND - SILT MIXTURES
	PASSING ON NO. 4 SIEVE	(APPRECIABLE AMOUNT OF FINES)		sc	CLAYEY SANDS, SAND - CLAY MIXTURES
				ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
FINE GRAINED	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
SOILS				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE				МН	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		СН	INORGANIC CLAYS OF HIGH PLASTICITY
		50		ОН	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
	HIGHLY ORGANIC S	OILS		PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

COARSE-GRAINED SOILS FINE-GRAINED SOILS

Relative Density	SPT (blows/ft)	Relative Density (%)	Consistency	SPT (blows/ft)
Very Loose	<4	0 - 15	Very Soft	<2
Loose	4 - 10	15 - 35	Soft	2 - 4
Medium Dense	10 - 30	35 - 65	Medium Stiff	4 - 8
Dense	30 - 50	65 - 85	Stiff	8 - 15
Very Dense	>50	85 - 100	Very Stiff	15 - 30
			Hard	>30

NOTE: SPT blow counts based on 140 lb. hammer falling 30 inches

Sample Symbol	Sample Type	Description
	SPT	1.4 in I.D., 2.0 in. O.D. driven sampler
	California Modified	2.4 in. I.D., 3.0 in. O.D. driven sampler
	Bulk	Retrieved from soil cuttings
	Thin-Walled Tube	Pitcher or Shelby Tube

LABORATORY TESTING ABBREVIATIONS

ATT

	J
С	Consolidation
CORR	Corrosivity Series
DS	Direct Shear
EI	Expansion Index
GS	Grain Size Distribution
K	Permeability
MAX	Moisture/Density
	(Modified Proctor)
0	Organic Content
RV	Resistance Value
SE	Sand Equivalent
SG	Specific Gravity
TX	Triaxial Compression
UC	Unconfined Compression
	•

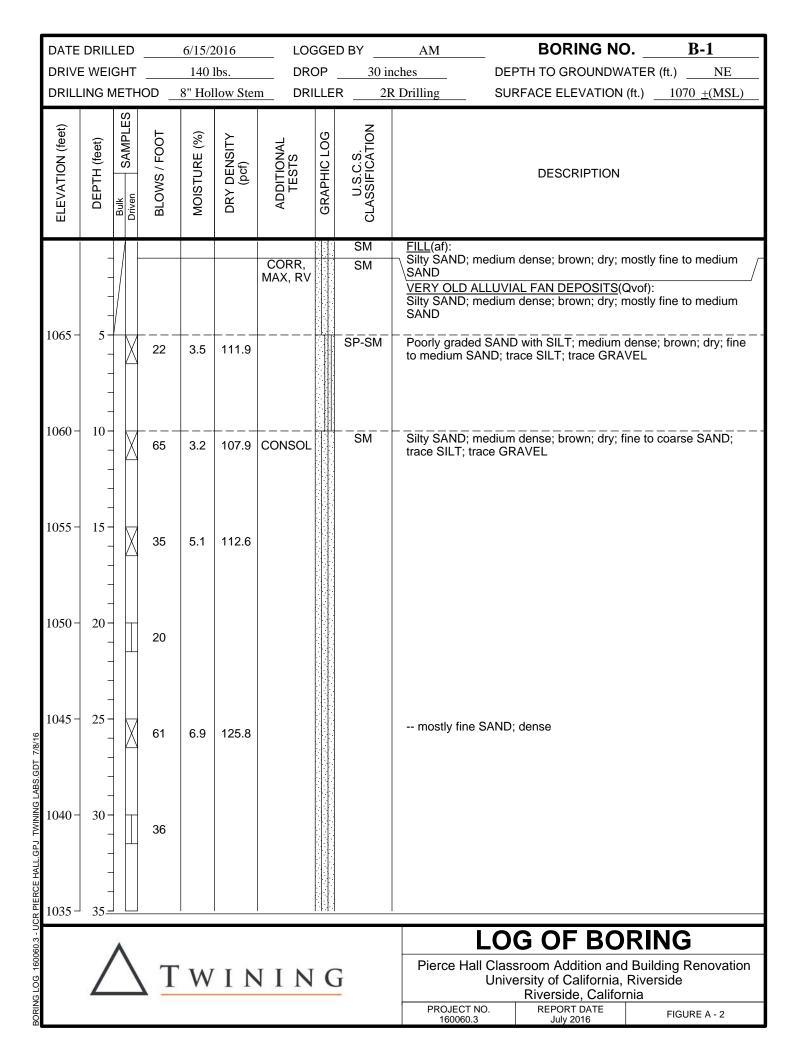
Atterberg Limits



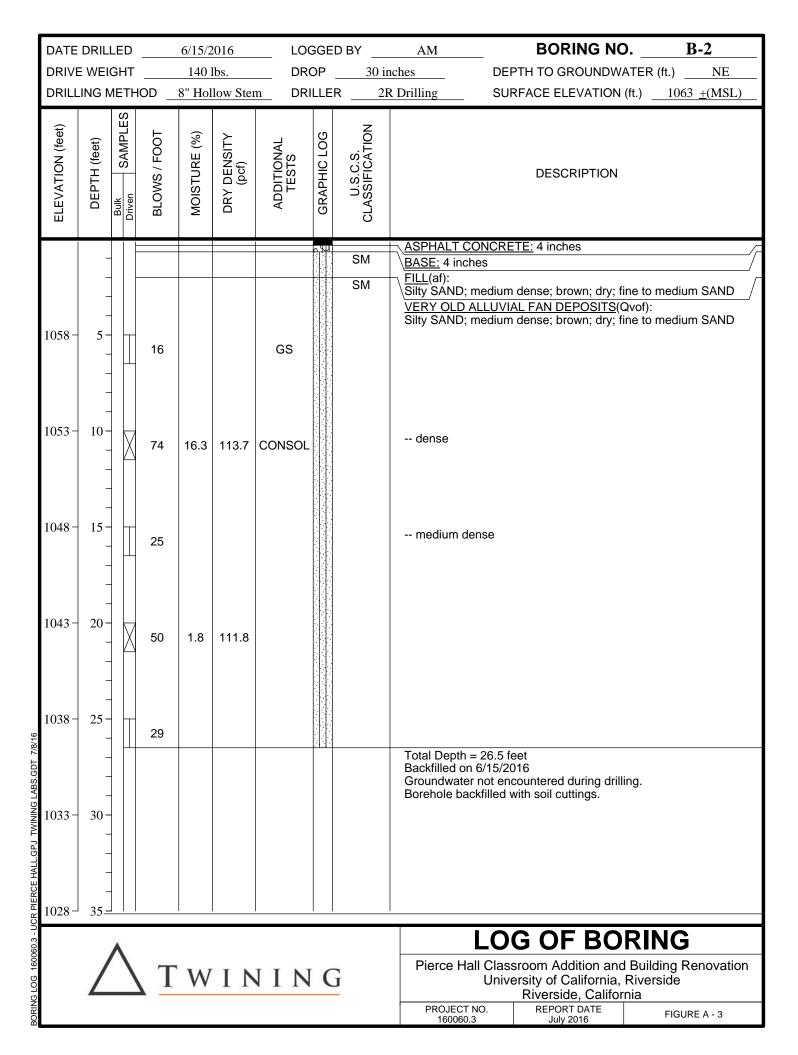
EXPLANATION FOR LOG OF BORINGS

Pierce Hall Classroom Addition and Building Renovation University of California, Riverside Riverside, California

	Riverside, California	
PROJECT NO. 160060.3	REPORT DATE July 2016	FIGURE A-1



	DATE	DRIL	LED		6/15/2	2016	LOC	GGE) BY	AM	_	BORING NO.		B-1
	DRIVE	E WEI	GHT		140	lbs.	DRO	OP _	30 ir	nches	DEPTH	H TO GROUNDWA	ΓER (ft.)	NE
	DRILL	ING N	ИΕΤΗ	HOD _	8" Hol	low Sten	n_ DRI	LLEF	R2F	R Drilling	SURFA	ACE ELEVATION (f	t.) <u>1</u> 0	070 <u>+</u> (MSL)
	ELEVATION (feet)	DEPTH (feet)	Bulk SAMPLES	BLOWS / FOOT	MOISTURE (%)	DRY DENSITY (pcf)	ADDITIONAL TESTS	GRAPHIC LOG	U.S.C.S. CLASSIFICATION			DESCRIPTION		
	1030 -	40-		51	5.8	124.4			SM	Silty SAND; n trace SILT; tra medium de	ace GRAV	ense; brown; dry; fin /EL <i>(continued)</i>	e to coa	rse SAND;
	1025 –	 45 - -		30										
	1020 -	50 - -		32						dense	54.5.6			
	1015 –	 55 								Total Depth = Backfilled on Groundwater Borehole bac	6/15/2016 not encou	; ıntered during drillin	g.	
.GDT 7/8/16	1010-	- 60 - - -	-											
BORING LOG 160060.3 - UCR PIERCE HALL.GPJ TWINING LABS.GDT 7/8/16	1005 –	- 65 - - -	-											
PIERCI	1000	70	1											
- UCR	1000	70=		•	1					·		<u> </u>		
3060.3			٨									OF BOF		
VG LOG 160		_	_	<u>r</u> 2	W	IN	IN	G	Ì		Univers R	om Addition and I ity of California, R Riverside, Californi	iverside	Renovation
BORIL										PROJECT N 160060.3		REPORT DATE July 2016	FIG	GURE A - 2



DATE DRIVE				6/15/2		LO	GGEI OP		AM	BORING NO. B-3 DEPTH TO GROUNDWATER (ft.) NE
DRILL	ING N	/IETH	HOD _	8" Hol	llow Stem	DR	ILLEF	R2I	R Drilling	SURFACE ELEVATION (ft.) 1063 ±(MSL)
ELEVATION (feet)	DEPTH (feet)	Bulk SAMPLES	BLOWS / FOOT	MOISTURE (%)	DRY DENSITY (pcf)	ADDITIONAL TESTS	GRAPHIC LOG	U.S.C.S. CLASSIFICATION		DESCRIPTION
	_							SM		CONCRETE: 5 inches
1058 –	- - 5 - - -		34	1.7	109.0	DS		SM	∖SAND VERY OLD A	medium dense; light brown; dry; fine to coarse ALLUVIAL FAN DEPOSITS(Qvof): medium dense; light brown; dry; fine to coarse
1053 -	10 -		70	6.3	127.6			SP-SM	Poorly graded SAND; little S	ed SAND with SILT; dense; brown; slightly moist; fine SILT
1048 -	15 -		34					SM	Silty SAND; d	dense; light brown; dry; fine to medium SAND
1043 -	20		62	7.3	128.6				fine SAND;	D; brown; moderately cemented
	- - -		31							= 26.5 feet n 6/15/2016 er not encountered during drilling. ackfilled with soil cuttings.
1033 -	30 -									
1028	35=	j l	l	1	l l		<u> </u>		I	
	TWINING LOG OF BORING Pierce Hall Classroom Addition and Building Renovation University of California, Riverside							all Classroom Addition and Building Renovation University of California, Riverside		
									PROJECT N 160060.3	

Appendix B Laboratory Testing

Appendix B Laboratory Testing

Laboratory Moisture Content and Density Tests

The moisture content and dry densities of driven samples obtained from the exploratory borings were evaluated in general accordance with the latest version of ASTM D 2937. The test results are presented on the logs of the exploratory borings in Appendix A.

Sieve Analysis

Sieve analysis was performed on one selected soil sample to evaluate particle size distribution in general accordance with ASTM D 1140. The result is presented in Figure B-1.

Maximum Dry Density-Optimum Moisture Content

One selected bulk sample was tested to evaluate the maximum dry density and optimum moisture content. The test was performed in general accordance with ASTM test method D 1557. The results are presented on Figure B-2.

Direct Shear Tests

Direct shear tests were performed on one selected relatively undisturbed soil samples in general accordance with ASTM D 3080 to evaluate the shear strength characteristics of the materials. The samples were inundated during shearing to represent adverse field conditions. Test results are presented on Figure B-3.

Consolidation Tests

Consolidation tests were performed on two selected sample in general accordance with the latest version of ASTM D 2435. The samples were inundated during testing to represent adverse field conditions. The percent consolidation for each load cycle was recorded as a ratio of the amount of vertical compression to the original height of the sample. The results of the test are presented on Figure B-4 and B-5.

Corrosivity

Soil pH and resistivity tests were performed by Anaheim Test Laboratories on a representative soil samples in general accordance with the latest version of California Test Method 643. The chloride content of the selected samples was evaluated in general accordance with the latest version of California Test Method 422. The sulfate content of the selected samples was evaluated in general accordance with the latest version of California Test Method 417. The test results are presented on Table B-1.

Table B-1 Corrosivity Test Results

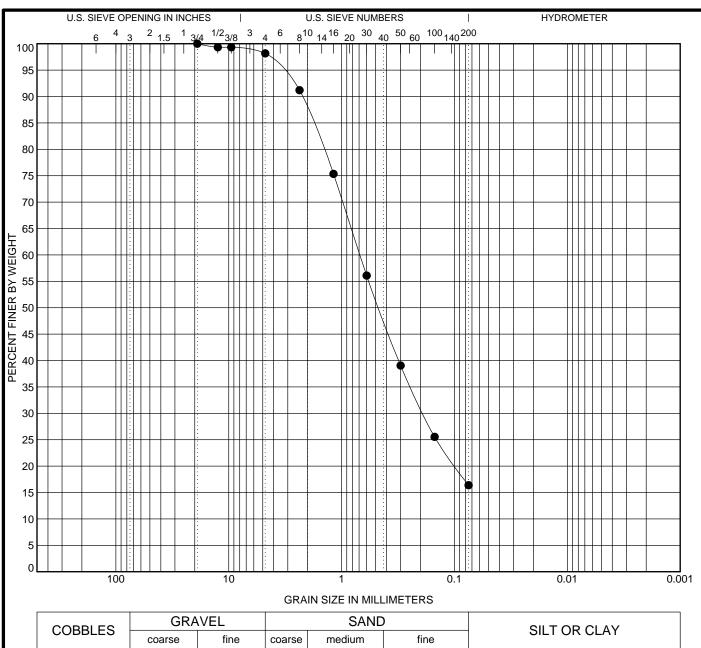
Boring No.	Depth (feet)	рН	Water Soluble Sulfate (ppm)	Water Soluble Chloride (ppm)	Minimum Resistivity (ohm-cm)
B-1	0 – 5	7.8	107	99	7,600

Resistance Value (R-Value)

R-value testing was performed on a select bulk sample of the near-surface soils encountered at the site. The test was performed in general accordance with ASTM D 28444. The results are summarized in Table B-2.

Table B-3 Resistance Value (R-Value)

Boring No.	Depth (feet)	R-Value
B-1	0 – 5	49



COBBLES	GRA	VEL		SAND)	SILT OR CLAY
COBBLES	coarse	fine	coarse	medium	fine	SILT OR CLAT

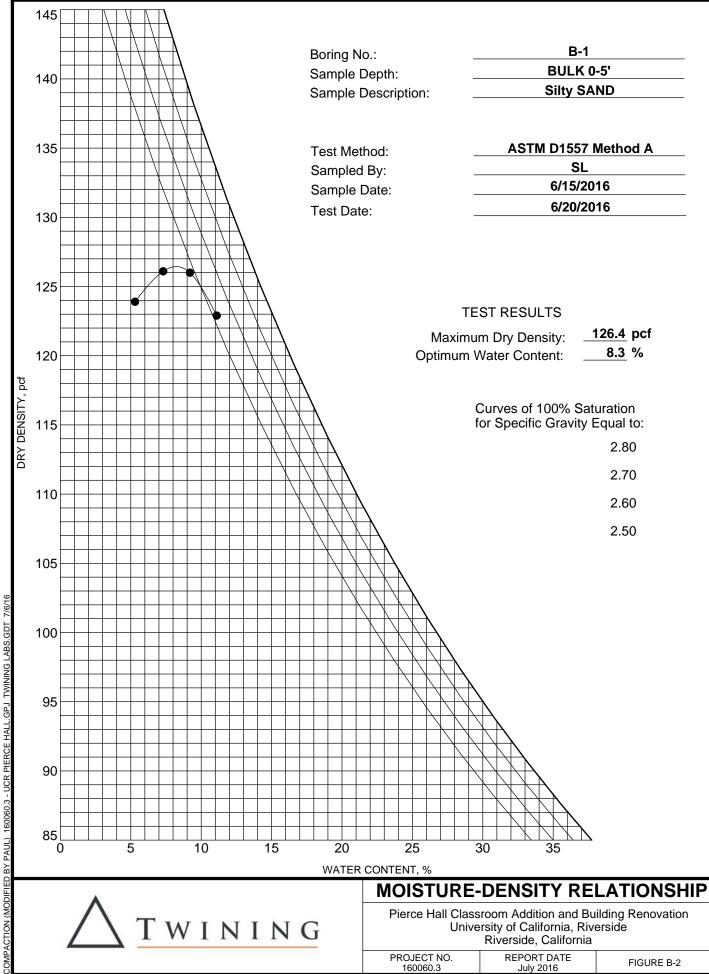
Sample Location U.S.C					S. Classification				
B-2 at 5 f	t	Silty SAND							
D ₁₀₀	D ₆₀	D ₅₀	D ₃₀	D ₁₀	%Gravel	%Sand	%Silt	%	6Clay
19	0.688	0.468	0.189		1.8	81.8		16.4	
	A				GRAIN	SIZE DIS	TRIBU	TION	



GRAIN SIZE DISTRIBUTION

Pierce Hall Classroom Addition and Building Renovation University of California, Riverside Riverside, California

PROJECT NO. 160060.3	REPORT DATE July 2016	FIGURE B- 1



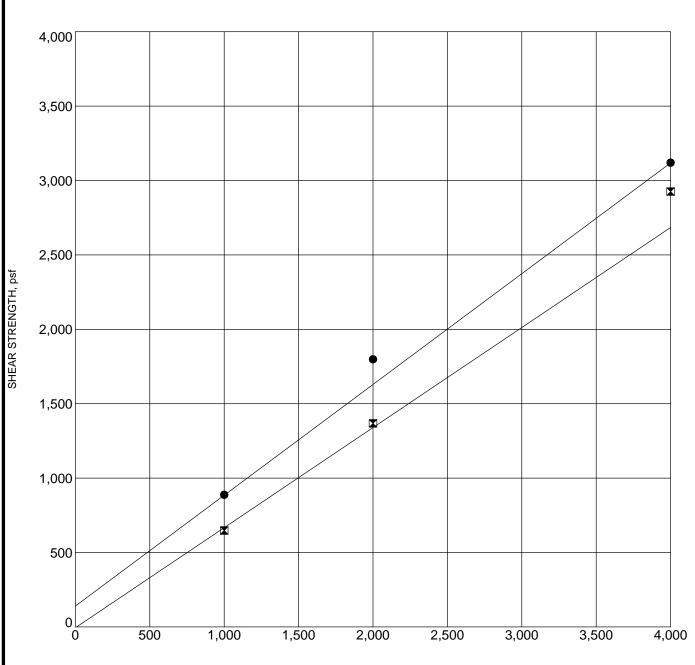


Pierce Hall Classroom Addition and Building Renovation University of California, Riverside Riverside, California

PROJECT NO. 160060.3

REPORT DATE July 2016

FIGURE B-2



NORMAL PRESSURE, psf

Shear Strength Parameters

Peak — Ultimate – X—

Cohesion, C (psf): 140 0 Friction Angle, Ø (deg): 36 34

> Initial Moisture (%): 1.7 Final Moisture (%): 19.9

Boring No.: B-3
Sample Depth (ft): 5
Sample Description: Silty SAND
Strain Rate (in./min): 0.005

Dry Density (pcf): 109.0

<u>TWINING</u>

DIRECT SHEAR TEST

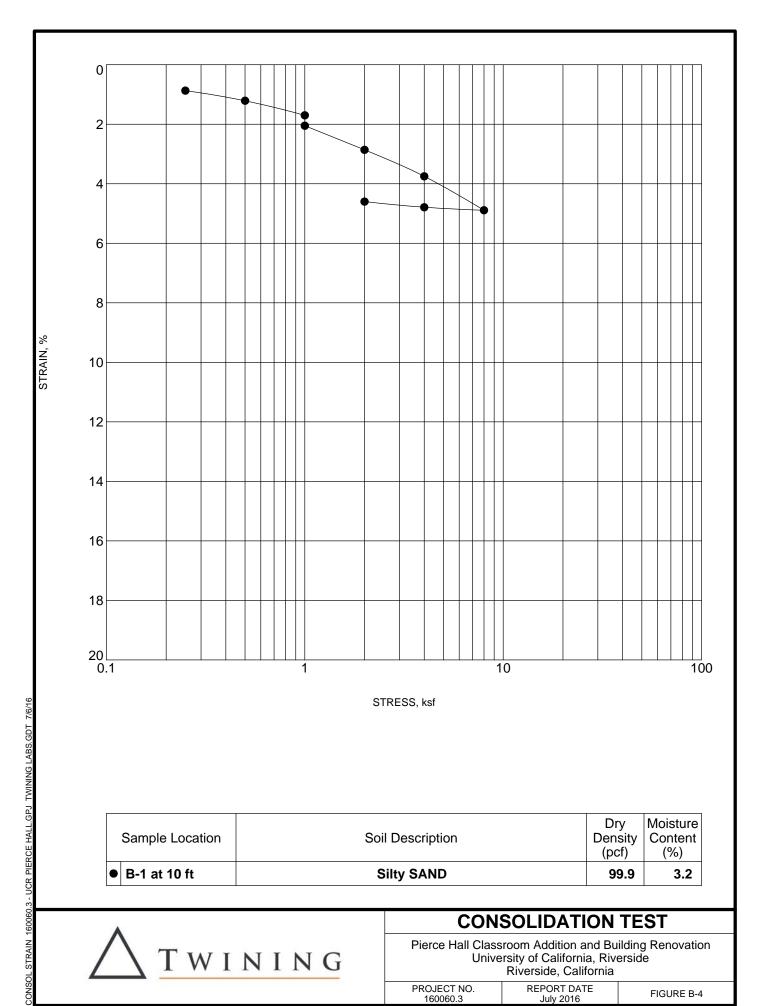
Pierce Hall Classroom Addition and Building Renovation University of California, Riverside Riverside, California

PROJECT NO.	
160060.3	

REPORT DATE July 2016

FIGURE B-3

DIRECT SHEAR 160060.3 - UCR PIERCE HALL.GPJ TWINING LABS.GDT 7/8/16



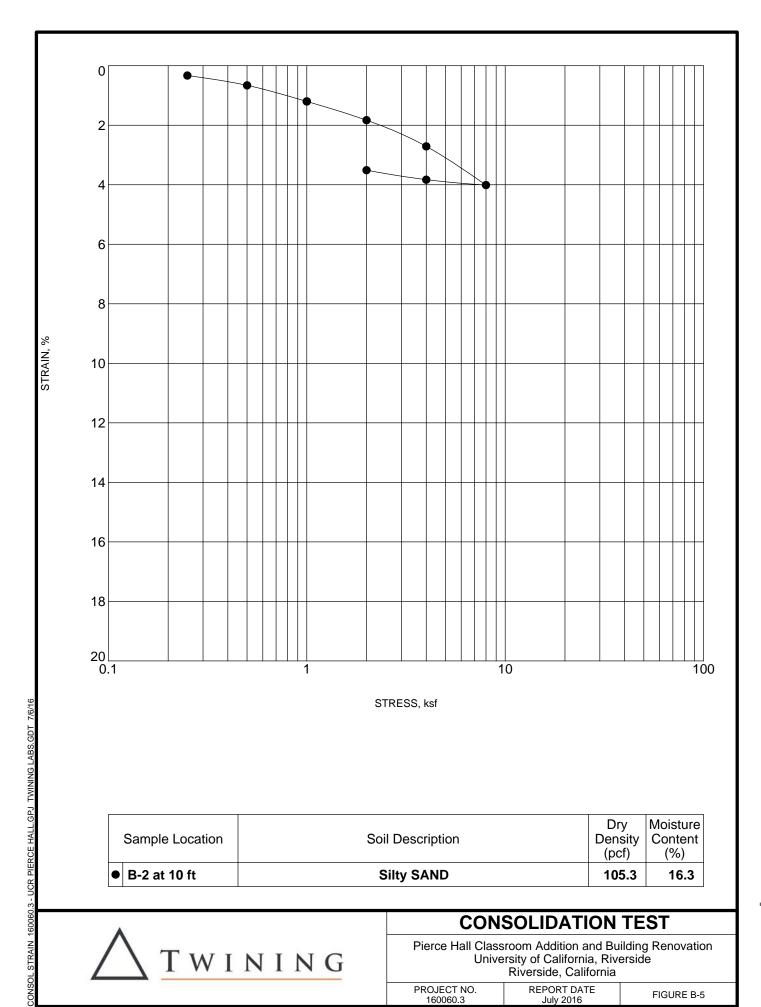
	Sample Location	Soil Description		Moisture Content (%)
•	B-1 at 10 ft	Silty SAND	99.9	3.2



CONSOLIDATION TEST

Pierce Hall Classroom Addition and Building Renovation University of California, Riverside Riverside, California

	· · · · · · · · · · · · · · · · · · ·	
PROJECT NO. 160060.3	REPORT DATE July 2016	FIGURE B-4



B-2 at 10 ft	Silty SAND	105.3	16.3
Sample Location	Soil Description		Moisture Content (%)



CONSOLIDATION TEST

Pierce Hall Classroom Addition and Building Renovation University of California, Riverside Riverside, California

	·	
PROJECT NO. 160060.3	REPORT DATE July 2016	FIGURE B-5

May 5, 2017 Project No. 170358.3



Mr. Blythe R. Wilson Senior Project Manager University of California Riverside 1223 University Avenue Riverside, California 92507

Subject: Percolation Testing Report

Pierce Hall Classroom Addition and Building Renovation Project

University of California Riverside

Riverside, California

Dear Mr. Wilson:

Twining, Inc. (Twining) is pleased to present our percolation testing results for the project site. The purpose of this report is to evaluate the infiltration rates of on-site soil regarding the feasibility of the stormwater infiltration system.

Based on the information provided by the civil engineer, the desired percolation testing locations and depths are assigned. Twining has performed the percolation testing on April 25, 2017. The percolation testing locations are depicted on Figure 1 – Site Plan.

Field Exploration

Two soil borings were excavated to approximately 10 and 30 feet below the existing ground surface. The boring was excavated using an eight-inch hollow-stem-auger, truck-mounted drill rig.

Subsurface Earth Materials

Earth materials encountered during our subsurface exploration consist of predominately silty sand to the maximum drilled depths. The detailed boring logs are attached at the end of report.

Groundwater

Groundwater was not encountered within the deepest exploratory boring at a depth of approximately 30 feet below the existing grade. Based on our review of the California Water Resource website, the groundwater level is reportedly situated at a depth greater than 150 feet below the ground surface. Groundwater conditions may vary across the site due to stratigraphic and hydrologic conditions, and may change over time as a consequence of seasonal and meteorological fluctuations, or of activities by humans at this and nearby sites.

Percolation Testing



Percolation testing was performed utilizing the soil borings on April 25, 2017 in accordance with the Riverside County Design Handbook for Low Impact Development Best Management Practices. After installing pipe and filter rock, borehole was presoaked for two hours prior to testing.

After presoaking, the boreholes were filled with water to take measurements at 10-minute intervals for a total of 6 readings. The minimum drop from the last 3 readings was used to determine the infiltration rate at each testing location. Our recommended design infiltration rate is presented in Table 1, and detailed data is attached at the end of report.

Table 1, Recommended Design Infiltration Rate

Boring Location	Testing Depth (Perforated Pipe Section) (feet)	Design Infiltration Rate (inch/hour)
P-1	25 to 30	0.5
P-2	5 to 10	1.2

Conclusions and Recommendations

Based on the results of our field testing and engineering evaluation, it is our opinion that infiltration BMP system is feasible from a geotechnical standpoint, provided that the recommendations in this report are incorporated into the design plans and are implemented during construction. The followings are our conclusions and recommendations:

- The recommended design infiltration rates are presented on Table 1.
- The infiltration system shall be located at least 15 feet away from any existing and proposed building foundations.

Limitations

Due to the limited nature of our field exploration, conditions not observed and described in this report may be present on the site. Uncertainties relative to subsurface conditions can be reduced through additional subsurface exploration. Additional subsurface evaluation can be performed upon request. It should be understood that conditions different from those anticipated in this report may be encountered during construction.

Site conditions, including groundwater elevation, can change with time as a result of natural processes or that activities of man at the subject site or at nearby sites. Changes to applicable laws, regulations, codes, and standards of practice may occur as a result of government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Twining Consulting has no control.



We have endeavored to perform our evaluation using the degree of care and skill ordinarily exercised under similar circumstances by engineering professionals with experience in this area. No other warranty, either expressed or implied, is made as to the conclusions contained in this report.

Closure

We appreciated the opportunity to be of service on this project. If you have any questions regarding this report, or if we can be of further service, please do not hesitate to contact the undersigned at (562) 426-3355.

Respectfully submitted, **TWINING, INC.**

Sean Lin, GE 2921

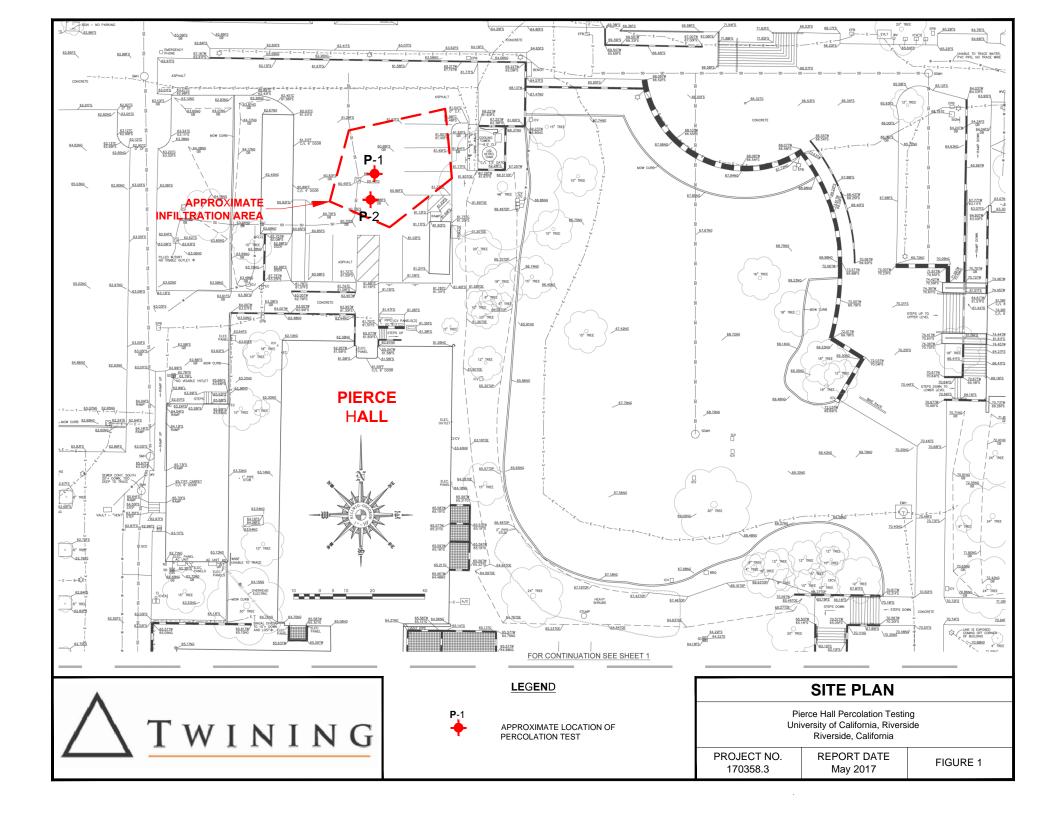
Chief Geotechnical Engineer

Attachment(s): Figure 1 – Site Plan

Figure A-1 thru A-3 – Logs of Boring

Percolation Test Results

Exp. 9/30/18



		UNIFIED SOIL CLA	ASSIFICATI	ON CHAR	Т
MAJOR DIVISIONS					TYPICAL
	WAOON DIVIDION		GRAPH	LETTER	DESCRIPTIONS
	GRAVEL AND GRAVELLY	CLEAN GRAVELS		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
COARSE	SOILS	(LITTLE OR NO FINES)		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
GRAINED SOILS	MORE THAN 50% OF COARSE FRACTION	GRAVELS WITH FINES		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
	RETAINED ON NO. 4 SIEVE	(APPRECIABLE AMOUNT OF FINES)		GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
MORE THAN 50% OF	SAND AND SANDY	CLEAN SANDS		sw	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	SOILS	(LITTLE OR NO FINES)		SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
	MORE THAN 50% OF COARSE FRACTION	SANDS WITH FINES		SM	SILTY SANDS, SAND - SILT MIXTURES
	PASSING ON NO. 4 SIEVE	(APPRECIABLE AMOUNT OF FINES)		sc	CLAYEY SANDS, SAND - CLAY MIXTURES
				ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
FINE GRAINED	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
SOILS				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE				МН	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		СН	INORGANIC CLAYS OF HIGH PLASTICITY
				ОН	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
	HIGHLY ORGANIC S	OILS	7 77 77 77 77 77 77 77	PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

COARSI	E-GRAINED	SOILS	FINE-GRAII	NED SOILS
	0.0.7	D 1 41		0.00

Relative Density	SPT (blows/ft)	Relative Density (%)	Consistency	SPT (blows/ft)
Very Loose	<4	0 - 15	Very Soft	<2
Loose	4 - 10	15 - 35	Soft	2 - 4
Medium Dense	10 - 30	35 - 65	Medium Stiff	4 - 8
Dense	30 - 50	65 - 85	Stiff	8 - 15
Very Dense	>50	85 - 100	Very Stiff	15 - 30
			Hard	>30

NOTE: SPT blow counts based on 140 lb. hammer falling 30 inches

Sample Symbol	Sample Type	Description
	SPT	1.4 in I.D., 2.0 in. O.D. driven sampler
	California Modified	2.4 in. I.D., 3.0 in. O.D. driven sampler
	Bulk	Retrieved from soil cuttings
	Thin-Walled Tube	Pitcher or Shelby Tube

LABORATORY TESTING ABBREVIATIONS

ATT

С	Consolidation
CORR	Corrosivity Series
DS	Direct Shear
EI	Expansion Index
GS	Grain Size Distribution
K	Permeability
MAX	Moisture/Density
	(Modified Proctor)
0	Organic Content
RV	Resistance Value
SE	Sand Equivalent
SG	Specific Gravity
TX	Triaxial Compression
UC	Unconfined Compression

Atterberg Limits



EXPLANATION FOR LOG OF BORINGS

Pierce Hall Percolation Testing University of California, Riverside Riverside, California

PROJECT NO. REPORT DATE 170358.3 May 2017

	DATE DRILLED <u>4/25/2017</u> DRIVE WEIGHT 140 lbs.		LOGGED B			BORING NO		P-1				
						7.	· · · · · · · · · · · · · · · · · · ·	30 inches	•	PTH TO GROUNDWA		·
DRI	DRILLING METHOD 8" Hollow Stem					stem_	DRILLER	2R Drilling	SUF	RFACE ELEVATION	(ft.)	<u>+(MSL)</u>
DEPTH (feet)	Bulk SAMPLES	BLOWS / FOOT	MOISTURE (%)	DRY DENSITY (pcf)	GRAPHIC LOG	U.S.C.S. CLASSIFICATION				CRIPTION		
						SM		T CONCRETE:		arough dry		
90RING LOG 170358.3 - PIERCE HALL PERCOLATION TESTING. GPJ. TWINING LABS. GDT 5/6/17 30 32 32		24					boring	screened between		feet, percolation test p	performed	
3- PIERCE HALL PERCOLATIO	- - - -						Backfille Groundy	d on 4/25/2017 vater not encount removed, borehol	e backfilled w	rith soil cuttings.	DING	
70358.3										G OF BO		7
IG LOG 17			T	W		NI	NG		Pier Unive	ce Hall Percolation ersity of California, Riverside, Califor	Riverside	
SORIN							110	PRC 1	JECT NO. 70358.3	REPORT DATE May 2017		URE A - 2



	DAT	E DR	ILLED		4/25/2	017		LOGGED B	YAM		BORING NO	•	P-2
ı	DRI\	DRIVE WEIGHT			140 lbs.		DROP 30 inches		DEI	DEPTH TO GROUNDWATER (ft.) N		NE	
	DRIL	LING	METH	OD _	8" Hol	low S	Stem_	DRILLER	2R Drilling	Orilling SURFACE ELEVATION (ft.) \pm			
	DEPTH (feet)	Bulk SAMPLES	BLOWS / FOOT	MOISTURE (%)	DRY DENSITY (pcf)	GRAPHIC LOG	U.S.C.S. CLASSIFICATION				CRIPTION		
ı	_						SM		T CONCRETE: 4				
	- - 5- - -		43						ND; medium dens		eet, percolation test pe	rformed	
	10 -							Total De	pth = 10.0 feet d on 4/25/2017				
BORING LOG 170358.3 - PIERCE HALL PERCOLATION TESTING GPJ TWINING LABS.GDT 5/5/17	15							Groundy	vater not encount emoved, borehol	ered during (e backfilled v	drilling. vith soil cuttings.		
38.3 - PIE										LO	G OF BO	RING	
IG LOG 17035			*	T	W		NI	NG		Pie Univ	rce Hall Percolation ersity of California, F Riverside, Californ	Testing Riverside	
BORIN					44			140	PRC 1	JECT NO. 70358.3	REPORT DATE May 2017	FIG	URE A - 3



		Infiltra	tion Rate C	Calculation	Sheet		
Project :	Pierce Hall		Project No. :	170358.3		Date :	4/25/2017
	Test Hole No.:	P-1	Tested by :	SL			
Depth of Te	est Hole, D _T (in):	360	USCS Soi	Classification:	SM		
	Test H	ole Dimension (i	inches)		Length	Width	
Diameter (if ro	ound) (inches) =	8	Sides (if rectangular) =			
Sandy Soil Cri	teria Test*						
Trial No.	Start Time	Stop Time	Time Interval (min.)	Initial Depth to Water (in.)	Final Depth to Water (in.)	Change in Water Level (in.)	Greater than or Equal to 6" ? (Y/N)
1	7:30 AM	7:55 AM	25	241.8	277.2	35.4	Υ
2	8:00 AM	8:25 AM	25	195.0	226.0	31.0	Υ

*If two consecutive measurements show that six inches of water seeps away in less than 25 minutes, the test shall be run for an additional hour with measurements taken every 10 minutes. Otherwise, pre-soak overnight. Obtain at least twelve measurements per hole over at least six hours (approximately 30 minute intervals) with a precision of at least 0.25".

			Δt	H _o	H_f	ΔН	
Trial No.	Start Time	Stop Time	Time Interval (min.)	Initial Water Height (inches)	Final Water Height (inches)	Change in Water Level (inches)	Tested Infiltration Rate
1	9:30 AM	9:40 AM	10	123.36	110.52	12.84	1.3
2	9:40 AM	9:50 AM	10	110.52	97.08	13.44	1.5
3	9:50 AM	10:00 AM	10	97.08	84.96	12.12	1.6
4	10:00 AM	10:10 AM	10	84.96	75.00	9.96	1.5
5	10:10 AM	10:20 AM	10	75.00	66.96	8.04	1.3
6	10:20 AM	10:30 AM	10	66.96	61.20	5.76	1.0
7							
8							
9							
10							
11							
12							
13							
14		_					
15							

Recommended minitration rate = minitrested rate/2 = 0.5 men //	Recommended Infiltration Rate = Min. Tested Rate/2 =	0.5	inch /hr
	Recommended Intiltration Rate = Min. Tested Rate/2 =	0.5	inch/hr

		Infiltra	tion Rate C	Calculation	Sheet		
Project :	Pierce Hall		Project No. :	170358.3		Date :	4/25/2017
	Test Hole No.:	P-2	Tested by:	SL			
Depth of Test Hole, D _T (in):		120	USCS Soil	Classification:	SM		
	Test H	ole Dimension (i	nches)		Length	Width	
Diameter (if round) (inches) =		8	Sides (if rectangular) =				
Sandy Soil Crit	teria Test*						
Trial No.	Start Time	Stop Time	Time Interval (min.)	Initial Depth to Water (in.)	Final Depth to Water (in.)	Change in Water Level (in.)	Greater than or Equal to 6" ? (Y/N)
1	8:15 AM	8:40 AM	25	72.0	108.4	36.4	Υ
2	8:45 AM	8:10 AM	25	74.4	106.8	32.4	Υ
*If two consecut	tive measureme	nts show that six	cinches of water	seens away in	less than 25 min	utes the test sh	nall be run for

*If two consecutive measurements show that six inches of water seeps away in less than 25 minutes, the test shall be run for an additional hour with measurements taken every 10 minutes. Otherwise, pre-soak overnight. Obtain at least twelve measurements per hole over at least six hours (approximately 30 minute intervals) with a precision of at least 0.25".

			Δt	H _o	H _f	ΔН	
Trial No.	Start Time	Stop Time	Time Interval (min.)	Initial Water Height (inches)	Final Water Height (inches)	Change in Water Level (inches)	Tested Infiltration Rate
1	10:38 AM	10:48 AM	10	16.56	12.00	4.56	3.4
2	10:48 AM	10:58 AM	10	12.00	8.40	3.60	3.5
3	11:09 AM	11:19 AM	10	15.48	12.12	3.36	2.6
4	11:19 AM	11:29 AM	10	12.12	9.60	2.52	2.4
5	11:42 AM	11:52 AM	10	16.20	12.84	3.36	2.4
6	11:52 AM	12:02 PM	10	12.84	9.60	3.24	2.9
7							
8							
9							
10							
11							
12							
13							
14							
15							

Recommended Infiltration Rate = Min. Tested Rate/2 =	1.2	inch /hr
--	-----	----------



Addendum No. 9, March 11, 2019

GEOTECHNICAL INVESTIGATION
PROPOSED INTERDISCIPLINARY STUDIES BUILDING
UNIVERSITY OF CALIFORNIA
RIVERSIDE CAMPUS
RIVERSIDE, CALIFORNIA
PREPARED FOR
UNIVERSITY OF CALIFORNIA
UCR PROJECT NO. 950377
CHJ JOB NO. 02339-3



P.O. Box 231, Colton, CA 92324-0231 • 1355 E. Cooley Dr., Colton, CA 92324-3954 • Phone (909) 824-7210 • Fax (909) 824-7209

April 24, 2002

University of California
Office of Design & Construction
3615A Canyon Crest Drive
Riverside, California 92507
Attention: Mr. Ted Chiu

Job No. 02339-3

Dear Mr. Chiu:

Attached herewith is the Geotechnical Investigation report, prepared for the proposed Interdisciplinary Studies Building to be constructed on the campus of the University of California, Riverside, California.

We appreciate this opportunity to provide geotechnical services for this project. If you have questions or comments concerning this report, please contact this firm at your convenience.

Respectfully submitted, C.H.J., INCORPORATED

Ben Williams, Senior Staff Engineer

HSH/BW/FY/JJM/RJJ:sra

Distribution: University of California (6)

TABLE OF CONTENTS

	<u>PAGE</u>
INTRODUCTION	1
SCOPE OF SERVICES	1
PROJECT CONSIDERATIONS	2
SITE DESCRIPTION	2
FIELD INVESTIGATION	2
LABORATORY INVESTIGATION	3
SITE GEOLOGY AND SUBSURFACE SOIL CONDITIONS	3
FAULTING	4
HISTORICAL EARTHQUAKES	6
SEISMIC ANALYSIS	7
Probabilistic Hazard Analysis Seismic Zone Soil Profile Type Near-Source Effects	7 8 8 8
GROUNDWATER AND LIQUEFACTION	8
FLOODING AND EROSION	9
CONCLUSIONS	9
RECOMMENDATIONS	10
Seismic Design Considerations General Site Grading Initial Site Preparation Preparation of Fill Areas Preparation of Footing Areas Compacted Fill Expansive Soils Soluble Sulfates Footing Design Lateral Loading Slabs-On-Grade Construction Observation	10 11 11 11 12 12 12 12 13 13 14
LIMITATIONS	14
CLOSURE	15
REFERENCES	16
AFRIAL PHOTOGRAPHS REVIEWED	19

TABLE OF APPENDICES

	ENCLOSURE
APPENDIX "A" - GEOTECHNICAL MAPS	
Index Map Plat Geologic Index Map Earthquake Epicenter Map	"A-2" "A-3"
APPENDIX "B" - EXPLORATORY LOGS	
Key to Logs	"B" (2of2)
APPENDIX "C" - LABORATORY TESTING	
Test Data Summary Gradation Curves Direct Shear Test Soluble Sulfate and Corrosivity Analysis	"C-2" "C-3"
APPENDIX "D" - SEISMIC DATA	
Probability of Exceedance vs Acceleration	"D-1"



GEOTECHNICAL INVESTIGATION
PROPOSED INTERDISCIPLINARY STUDIES BUILDING
UNIVERSITY OF CALIFORNIA
RIVERSIDE CAMPUS
RIVERSIDE, CALIFORNIA
PREPARED FOR
UNIVERSITY OF CALIFORNIA
UCR PROJECT NO. 950377
CHJ JOB NO. 02339-3

INTRODUCTION

During April of 2002, a geotechnical investigation for the proposed Interdisciplinary Studies Building, to be located west of the Commons and southwest of the Physical Education Building on the University of California, Riverside (UCR) campus, was performed by this firm. The purpose of this investigation was to explore and evaluate the geotechnical conditions within the proposed structure area and to provide appropriate geotechnical and geologic recommendations for design and construction of the proposed structure.

To orient our investigation at the site, a photocopy of an approximately 250-scale Project Site Map and a proposed Interdisciplinary Studies Building Footprint, prepared by University of California, Riverside, dated August 14, 2001, was furnished for our use. We also utilized the current topographic map of the campus. The approximate location of the site is shown on the attached Index Map (Enclosure "A-1").

The results of our investigation, together with our conclusions and recommendations, are presented in this report.

SCOPE OF SERVICES

The scope of services provided during this geotechnical investigation included the following:

- Review of pertinent geotechnical literature and maps
- Review and analysis of stereoscopic aerial photographs flown in 1931, 1957, 1974, 1990, 1995, and 2001
- A geologic field reconnaissance of the site and surrounding area
- Placement of six exploratory borings on the site
- Logging and sampling of the exploratory borings for testing and evaluation
- Laboratory testing on selected samples
- Evaluation of the geotechnical data to develop site-specific recommendations for site grading, foundation design, and mitigation of potential geotechnical constraints.



Page No. 2 Job No. 02339-3

PROJECT CONSIDERATIONS

It is our understanding that the site will be developed with a four-story building of either concrete or steel frame type construction. The foundation configuration and loads are not known at this time. The proposed elevation of the structure is not known at this time; however, it is anticipated that the structure will be constructed within 2 to 3 feet of the existing grade.

The grading plan was not available at the time of our investigation. The general topography and observation of the nearby development indicates that the development of this site will entail minimal cuts and fills (approximately 2 to 3 feet). The final grading plan should be reviewed by the geotechnical engineer.

SITE DESCRIPTION

The subject structure is located within the campus of UCR in Riverside, California. East of the site is the Commons, and northeast of the site is the Physical Education Building. To the west and to the south of the site are lawn/landscape areas and sidewalks.

At the time of our investigation, the subject site consisted of a vacant area with near planar topography, covered with grass and few trees. Evidence of underground utilities was noted in areas of the subject site. A few concrete sidewalks crossed the site.

Review of stereoscopic aerial photographs dating back to 1931 indicates that the site had been previously utilized for agricultural purposes (groves).

No other surface feature pertinent to this investigation were noted.

FIELD INVESTIGATION

The soil conditions underlying the subject site were explored by means of six exploratory borings drilled to a maximum depth of 51.0 feet below the existing ground surface with a truck-mounted CME 55 drill rig equipped for soil sampling. The approximate locations of our exploratory borings are indicated on the attached Plat (Enclosure "A-2").

Continuous logs of the subsurface conditions, as encountered within the exploratory borings, were recorded at the time of drilling by a staff geologist from this firm. Relatively undisturbed samples were



Page No. 3 Job No. 02339-3

obtained by driving a split-spoon ring sampler ahead of the borings at selected levels. After the required seating of the sampler, the number of hammer blows required to advance the sampler a total of 12 inches was converted to equivalent standard penetration test (SPT) blow counts (N_{60}) data and recorded on the boring logs. Undisturbed as well as bulk samples of typical soil types obtained were returned to the laboratory in sealed containers for testing and evaluation.

Our exploratory boring logs, together with our equivalent SPT-N₆₀ data, are presented in Appendix "B". The stratification lines presented on the boring logs represent approximate boundaries between soil types, which may include gradual transitions.

LABORATORY INVESTIGATION

Included in our laboratory testing program were field moisture content determinations on all samples returned to the laboratory and field dry densities on all undisturbed samples. The results are included on the boring logs.

Optimum moisture content - maximum dry density relationships were established for typical soil types. Direct shear and consolidation tests were performed on selected samples in order to provide shear strength and consolidation parameters for bearing capacity, earth pressure, and settlement evaluations.

Sieve analyses were performed on selected samples for soil classification purpose.

A selected sample of material was delivered to Del Mar Analytical Laboratory for soluble sulfate analysis.

Our laboratory test results are presented in Appendix "C".

SITE GEOLOGY AND SUBSURFACE SOIL CONDITIONS

The site is located on the Perris Block, a portion of the Peninsular Ranges Geomorphic Province. The Perris Block is a fault-bounded region of relative tectonic stability, a mass of relatively high land composed of crystalline bedrock thinly and discontinuously mantled by sedimentary material (Woodford and others, 1971). A Geologic Index Map (Morton and Cox, 1994) is included as Enclosure "A-3".

The site is located on an alluvial fan emanating from the Box Springs Mountains located east and south of the site. The alluvial fan is characterized by a slightly elevated and incised geomorphic surface. The native materials associated with this surface consist of reddish-brown silty sands and sands with minor



Page No. 4 Job No. 02339-3

amounts of clay. The clay-bearing soils result from a long period of exposure and weathering. Based on the degree of soil development, the reddish-brown alluvium is considered to be at least late Pleistocene in age (greater than approximately 11,000 years). As such, the native materials at the site are designated as older alluvium in this report. Based upon our equivalent SPT blow counts and density data, the older alluvium encountered is generally in place in a medium dense to very dense state.

Based upon our exploratory boring data the native soils encountered were typically comprised of fine to medium grained silty sands.

Below the upper soils, which have been disturbed by root growth, the surficial older alluvium is generally in a medium dense to dense state, grading more dense with depth.

Although identifiable fill materials was not encountered in the exploratory borings placed on the site, it is anticipated that some fill placement may have been necessary for the development of the walkways and site grading. It is also anticipated that tree root stocks of the previous groves and existing trees will have created localized areas of disturbed soils. Any existing on-site fills or disturbed soils are considered to be unsuitable for support of structures or roadways. The fills material is anticipated to consist of silty sands and poorly graded sands similar to on-site native materials.

Free groundwater or bedrock were not encountered within any of our exploratory borings to the maximum depths attained. Refusal was not experienced within any of our exploratory borings to the maximum depths explored.

All borings experienced slight caving upon removal of the augers.

A more detailed description of the subsurface soil conditions encountered within our exploratory borings is presented on the attached boring logs (Appendix "B").

FAULTING

The tectonics of the Southern California area are dominated by the interaction of the North American Plate and the Pacific Plate, which are apparently sliding past each other in a transform motion. Although some of the motion may be accommodated by rotation of crustal blocks such as the western Transverse Ranges (Dickinson, 1996), the San Andreas fault zone is thought to represent the major surface expression of the tectonic boundary and to be accommodating most of the transform motion between the Pacific Plate and the North American Plate. However, some of the plate motion is apparently also partitioned out to the other northwest-trending strike-slip faults that are thought to be



Page No. 5 Job No. 02339-3

related to the San Andreas system, such as the San Jacinto fault and the Elsinore fault. Local compressional or extensional strain resulting from the transform motion along this boundary is accommodated by left-lateral, reverse, and normal faults such as the Cucamonga fault, the Crafton Hills fault zone, and the blind thrust faults of the Los Angeles Basin (Matti and others, 1992; Morton and Matti, 1993).

The Box Springs fault is shown by Rogers (1966) as a buried trace beneath Pleistocene-age alluvium approximately 1 1/2 miles northeast of the site. Although this fault is readily visible as a bedrock feature southeast of the site, it is considered to be inactive.

The San Jacinto fault zone, a system of northwest-trending, right-lateral, strike-slip faults, is present across the San Jacinto Valley and through the San Timoteo Badlands, approximately 5 1/2 miles northeast of the site. The San Jacinto fault is the closest known active fault to the site and is considered to be the most important fault to the site with respect to the hazard of seismic shaking. More large historic earthquakes have occurred on the San Jacinto fault than any other fault in Southern California (Working Group on California Earthquake Probabilities, 1988).

Based on the data of Matti and others (1992), the portion of the San Jacinto fault adjacent to the site may be accommodating much of the motion between the Pacific Plate and the North American Plate in this area. Matti and others (1992) suggest this motion is transferred to the San Andreas fault in the Cajon Pass region by "stepping over" to parallel fault strands which include the Glen Helen fault. The Working Group on California Earthquake Probabilities (1995) tentatively assigned a 43 percent (±17 percent) probability of a major earthquake on the San Jacinto Valley segment of the San Jacinto fault for the 30 year interval from 1994 to 2024.

The San Andreas fault zone is located along the southwest margin of the San Bernardino Mountains, approximately 15 miles northeast of the site. The toe of the mountain front in the San Bernardino area roughly demarcates the presently active trace of the San Andreas fault, which is characterized by youthful fault scarps, vegetational lineaments, springs, and offset drainages. The Working Group on California Earthquake Probabilities (1995) tentatively assigned a 28 percent (±13 percent) probability to a major earthquake occurring on the San Bernardino Mountains segment of the San Andreas fault between 1994 and 2024.

The southern margin of the San Gabriel Mountains is coincident with a series of east-west trending, predominantly reverse and thrust faults known as the Transverse Ranges frontal fault system. The San Fernando fault of this system ruptured during the 1971 magnitude (**M**) 6.7 San Fernando earthquake. The Cucamonga fault of this system is located at the base of the San Gabriel Mountains, approximately

Page No. 6 Job No. 02339-3

15 1/2 miles northwest of the site. Evidence of recent activity on this fault includes fresh scarps, sag ponds, and disrupted Holocene alluvium (Dutcher and Garrett, 1963; Yerkes, 1985; Morton and Yerkes, 1987).

The Elsinore fault zone is present approximately 18 miles southwest of the site. The Elsinore fault zone is composed of multiple *en echelon* and diverging fault traces and splays into the Whittier and Chino faults to the north. Although a zone of overall right-lateral deformation consistent with the regional plate tectonics, traces of the Elsinore fault zone form the graben of the Elsinore and Temecula Valleys. Holocene surface rupture events have been documented for several principal strands of the Elsinore fault zone (Saul, 1978; Rockwell and others, 1986; Wills, 1988).

HISTORICAL EARTHQUAKES

A map of recorded earthquake epicenters is included as Enclosure "A-4" (EPI Software, 2000). The epicenters and magnitudes that are shown are based on data from recording instruments in the CalTech database. This enclosure presents circles as epicenters of earthquakes with \mathbf{M}_{L} equal to or greater than 4.0 that were recorded from 1977 through 2002.

The San Jacinto fault is the most seismically active fault in Southern California, although it has no record of producing great events comparable to those that occurred on the San Andreas fault during the Fort Tejon earthquake of 1857 and the San Francisco earthquake of 1906 (Working Group on California Earthquake Probabilities, 1988). Between 1899 and 1990, seven earthquakes of **M** 6.0 or greater have occurred along the San Jacinto fault. Two of these earthquakes, an estimated **M** 6.7 1 in 1899 and a **M** 6.8 in 1918, took place in the San Jacinto Valley, east of the site. Two others, an estimated **M** 6.5 in 1899 and a **M** 6.2 in 1923, took place in the San Bernardino Valley, north of the site (Working Group on California Earthquake Probabilities, 1988).

The only large historical earthquake that can definitely be attributed to the Elsinore fault was a **M** 6.0 event in 1910 in the Temescal Valley area. This event caused damage to structures from Corona to Wildomar (Weber, 1977). Since 1932, four **M** 4.0+ earthquakes have occurred along the Elsinore fault zone in the Santiago Peak area (Weber, 1977).

No large earthquakes have occurred on the San Bernardino Mountains segment of the San Andreas fault within the regional historical time frame. Using dendrochronological evidence, Jacoby and others (1987) inferred that a great earthquake on December 8, 1812 ruptured the northern reaches of this segment. Recent trenching studies have revealed evidence of rupture on the San Andreas fault at Wright-



Page No. 7 Job No. 02339-3

wood occurred within this time frame (Fumal and others, 1993). Comparison of rupture events at the Wrightwood site and Pallett Creek and analysis of reported intensities at the coastal missions led Fumal and others (1993) to conclude that the December 8, 1812 event ruptured the San Bernardino Mountains segment of the San Andreas fault largely to the southeast of Wrightwood, possibly extending into the San Bernardino Valley.

Surface rupture occurred on the Mojave segment of the San Andreas fault in the great 1857 Fort Tejon earthquake. The Coachella Valley segment of the San Andreas fault was responsible for the 1948 M 6.5 earthquake in the Desert Hot Springs area and for the 1986 M 5.6 earthquake in the North Palm Springs area.

No significant historical earthquakes have been specifically attributed to the Box Springs fault or the Cucamonga fault in the general area of the site.

SEISMIC ANALYSIS

The precise relationship between magnitude and recurrence interval of large earthquakes for a given fault is not known due to the relatively short time span of recorded seismic activity. As a result, a number of assumptions must be made to quantify the ground shaking hazard at a particular site. Seismic hazard evaluations can be conducted from both a probabilistic and a deterministic standpoint. The probabilistic method is prescribed by current codes and was utilized to estimate the seismic hazard to the site during this investigation.

PROBABILISTIC HAZARD ANALYSIS:

The probabilistic analysis of seismic hazard is a statistical analysis of seismicity of all known regional faults attenuated to a particular geographic location. The results of a probabilistic seismic hazard analysis are presented as the annual probability of exceedance of a given strong motion parameter for a particular exposure time (Johnson and others, 1992).

For this report, the probabilistic analysis computer program FRISKSP (Blake, 2000) was used to analyze the location of the site under the criteria for NEHRP Type "C" sites by Boore and others (1997) in relation to seismogenic faults within a 62-mile (100km) radius of the site. The fault database utilized is published by the California Division of Mines and Geology (Petersen and others, 1998). The FRISKSP program assumes that significant earthquakes occur on mappable faults and that the occurrence rate of earthquakes on a fault is proportional to the estimated slip rate of that fault. Potential earthquake magnitudes are correlated to expected fault rupture areas and the resultant maximum ground



Page No. 8 Job No. 02339-3

acceleration at the site is computed. From the summation of the accelerations from all the potential sources, the total average annual expected number of occurrences of an acceleration greater than each of the values requested is calculated (Blake, 2000). The resultant graph of probability of exceedance vs. acceleration (Enclosure "E-1") indicates that a peak ground acceleration of 0.52g has a 10 percent probability of exceedance in 50 years. This corresponds to the Design Basis Earthquake as defined in the California Building Code (1998) and has a statistical return period of 475 years.

SEISMIC ZONE:

Figure 16A-2 presented in the 1998 California Building Code places the portion of Riverside County west of 115° 30', which includes the site, within Seismic Zone 4. A Seismic Zone Factor "Z" of 0.40 is assigned to Seismic Zone 4.

SOIL PROFILE TYPE:

The appropriate classification for this site is S_C , very dense soil and soft rock.

NEAR-SOURCE EFFECTS:

The seismic hazard to this site is dominated by the adjacent San Jacinto fault. For the purpose of near-source effect evaluation, maps of near-source zones in California including a classification table for the faults involved were prepared by the California Division of Mines and Geology to be used with the 1997 Uniform Building Code (International Conference of Building Officials, 1997). The adjacent San Jacinto segment of the San Jacinto fault is classified as a Type "B" fault by the California Division of Mines and Geology (Petersen and others, 1998). Due to the potential for cascading (multi-segment rupture), the San Jacinto fault is considered to be a Type "A" fault. The corresponding near-source acceleration factor N_A , as defined in the 1997 Uniform Building Code (UBC), is 1.06, and the near-source velocity factor N_V is 1.32.

GROUNDWATER AND LIQUEFACTION

Static or perched groundwater were not encountered within any of our exploratory borings drilled to a maximum depth of 51.5 feet below the ground surface (bgs). Based on review of depth to groundwater data from a well located approximately 1/2 mile south of the site (State Well No. T2S/R4W 29M01) available from Western Municipal Water District (2001), the current depth to groundwater beneath the site is expected to be at least 60 feet. Groundwater contour mapping conducted by Carson and Matti (1982), utilizing data from the years spanning 1973 to 1979, indicates a minimum depth to groundwater of 50 to 75 feet bgs.



Page No. 9 Job No. 02339-3

Liquefaction is a process in which strong ground shaking causes saturated soils to lose their strength and behave as a fluid (Matti and Carson, 1991). Ground failure associated with liquefaction can result in severe damage to structures. The geologic conditions for increased susceptibility to liquefaction are:

1) shallow groundwater (less than 50 feet in depth), 2) presence of unconsolidated sandy alluvium, typically Holocene in age, and 3) strong ground shaking. All three of these conditions must be present for liquefaction to occur. Based upon the data reviewed during this evaluation, only one of the three geologic conditions for increased liquefaction susceptibility (strong ground shaking) is expected to exist on the site.

Based on the relative density of the underlying soils and expected depth to groundwater, liquefaction is not anticipated, and further evaluation is not warranted.

FLOODING AND EROSION

No evidence of significant historic flooding of the site was observed during our geologic field reconnaissance or on the aerial photographs reviewed. The hazard of major flooding of the site appears minimal.

On-site materials are susceptible to erosion by running water. Finish graded areas should be protected from the effects of runoff.

CONCLUSIONS

On the basis of our field and laboratory investigations, it is the opinion of this firm that the proposed Interdisciplinary Studies Building is feasible from a geotechnical engineering standpoint, provided the recommendations contained in this report are implemented during grading and construction.

Based upon our field investigation and test data, it is our opinion that the existing fills and upper native soils will not, in their present condition, provide uniform or adequate support for the proposed structure. Previous use of the site, which included citrus groves occupying portions of the site, will have resulted in localized area of disturbed soils. It is anticipated that such soil disturbance may extend to depths of 3 to 4 feet.

Based upon the conditions encountered, it appears that the proposed building could be safely founded on spread footings bearing entirely upon a uniform compacted fill mat. The building pad area will need



Page No. 10 Job No. 02339-3

to be subexcavated to remove all unsuitable and disturbed soils. Although the actual subexcavation depths will depend upon the depths of footings and depths of unsuitable materials to be removed, it is anticipated that the depth of subexcavation of unsuitable soils will need to extend to a minimum of 3 feet.

Because of site conditions, it will be necessary to remove a minimum of the upper 36 inches of existing soil in areas to be graded. Deeper removals may be necessary, depending upon conditions encountered. To provide adequate and uniform support for the proposed structures, it is our recommendation that the building areas be further subexcavated as necessary and recompacted to provide a compacted fill mat beneath foundations and slabs.

No evidence of active faulting on or immediately adjacent to the site was observed during the geologic field reconnaissance or on the aerial photographs reviewed.

Moderate to severe seismic shaking of the site can be expected during the lifetime of the proposed structure.

No evidence for landsliding on or immediately adjacent to the site was observed during the geologic field reconnaissance or on the aerial photographs reviewed.

No evidence of recent significant flooding of the site or surrounding area was observed.

The anticipated depth of groundwater and the presence of dense, non-liquefiable soils of suspected late Pleistocene age preclude liquefaction as a hazard at the site.

RECOMMENDATIONS

SEISMIC DESIGN CONSIDERATIONS:

Moderate to severe seismic shaking of the site can be expected during the lifetime of the proposed structure. Therefore, the proposed structure should be designed accordingly.

The appropriate classification for this site is S_C , very dense soil and soft rock.

The site is subject to the near-source effects of strong ground motion. The corresponding near-source acceleration factor N_A , as defined in the 1997 UBC, is 1.06, and the near-source velocity factor N_V is 1.32.



Page No. 11 Job No. 02339-3

GENERAL SITE GRADING:

It is imperative that no clearing and/or grading operations be performed without the presence of a representative of the geotechnical engineer. An on-site pre-job meeting with the owner, the contractor, and the geotechnical engineer should occur prior to all grading-related operations. Operations undertaken at the site without the geotechnical engineer present may result in exclusions of affected areas from the final compaction report for the project.

Grading of the subject site should be performed, at a minimum, in accordance with these recommendations and with applicable portions of the UBC. The following recommendations are presented for your assistance in establishing proper grading criteria.

INITIAL SITE PREPARATION:

After removal of existing sidewalk, all areas to be graded should be stripped of significant vegetation and other deleterious materials. These materials should be removed from the site for disposal.

At least the upper 3 feet of existing soils within the building area and 5 feet beyond should be completely removed, cleaned of significant deleterious materials, and may be reused as compacted fill. Deeper fills and/or deeper undisturbed native soils requiring complete removal may exist and should be anticipated.

The bottom of this excavation should be observed by the Engineering Geologist to verify the complete removal of fill material and disturbed native soils, and then, following approval, should be scarified to a depth of approximately 12 inches, brought to between optimum moisture content and 2 percent above, and recompacted to at least 95 percent relative compaction (ASTM D 1557-91) prior to refilling the excavation to grade as properly compacted fill.

Cavities created by removal of subsurface obstructions, such as root stocks and utility lines, should be thoroughly cleaned of loose soil, organic matter, and other deleterious materials, shaped to provide access for construction equipment, and backfilled as recommended for site fill.

PREPARATION OF FILL AREAS:

Prior to placing fill, and after the subexcavation bottom has been observed and approved, the surfaces of all areas to receive fill should be scarified to a depth of approximately 12 inches. The scarified soils should be brought to between optimum moisture and 2 percent above and recompacted to a relative compaction of at least 95 percent in accordance with ASTM D 1557-91.



Page No. 12 Job No. 02339-3

PREPARATION OF FOOTING AREAS:

All footings should rest upon at least 36 inches of properly compacted fill material. In areas where the required thickness of compacted fill is not accomplished by the 3-foot minimum mandatory removal or the removal and recompaction of unsuitable existing soils, the footing areas should be subexcavated to a depth of 36 inches or more below the proposed footing base grade, with the subexcavation extending at least 5 feet beyond the footing lines. The bottom of this excavation should then be scarified to a depth of at least 12 inches, brought to between optimum moisture content and 3 percent above, and recompacted to a minimum of 95 percent relative compaction in accordance with ASTM D 1557-91 prior to refilling the excavation to grade as properly compacted fill.

COMPACTED FILL:

Fill should be spread in near-horizontal layers, approximately 8 inches in thickness. Thicker lifts may be approved by the geotechnical engineer if testing indicates that the grading procedures are adequate to achieve the required compaction. Each lift shall be spread evenly, thoroughly mixed during spreading to attain uniformity of the material and moisture in each layer, brought to between optimum moisture content and 2 percent above, and compacted to a minimum relative compaction of 95 percent (ASTM D 1557-91).

The on-site soils should provide adequate quality fill material provided they are free from roots, other organic matter, and deleterious materials. Unless approved by the geotechnical engineer, rock or similar irreducible material with a maximum dimension greater than 6 inches should not be buried or placed in fills

Import fill, if required, should be inorganic, non-expansive granular soils free from rocks or lumps greater than 6 inches in maximum dimension. Sources for import fill should be observed and approved by the geotechnical engineer prior to their use.

EXPANSIVE SOILS:

The materials encountered and tested during this investigation were generally granular and considered to be non-critically expansive. Therefore, special design and construction procedures to mitigate the effects of expansive soils do not appear necessary at this time. Additional evaluation of soils for expansion potential should be conducted by the geotechnical engineer during the grading operation.

SOLUBLE SULFATES:

The results of our soluble sulfate testing indicate a "negligible" exposure to sulfate attack according to the American Concrete Institute. The soil is classified as moderately corrosive to ferrous metals and



Page No. 13 Job No. 02339-3

not particularly aggressive to copper. Further information on soluble sulfate testing and the corrosivity analysis is included in Appendix "C".

FOOTING DESIGN:

If the site is prepared as recommended, the proposed structure may be safely founded on conventional spread foundations, either individual spread footings and/or continuous wall footings, bearing entirely on a minimum of 36 inches of compacted fill. Footings should be a minimum of 12 inches wide and should be established at a minimum depth of 12 inches below lowest adjacent final subgrade level. For the minimum width and depth, footings may be designed for a maximum safe soil bearing pressure of 2,200 pounds per square foot (psf) for dead plus live loads. This allowable bearing pressure may be increased by 300 psf for each additional foot of width and by 600 psf for each additional foot of depth to a maximum safe soil bearing pressure of 6,000 psf for dead plus live loads. These bearing values may be increased by one-third for wind or seismic loading.

For footings thus designed and constructed, we would anticipate a maximum settlement of less than 1/2 inch. Differential settlement between similarly loaded footings is expected to be approximately one-half the total settlement.

LATERAL LOADING:

Resistance to lateral loads will be provided by passive earth pressure and base friction. For footings bearing against compacted fill or approved native soils, passive earth pressure may be considered to be developed at a rate of 400 psf per foot of depth. Base friction may be computed at 0.40 times the normal load. Base friction and passive earth pressure may be combined without reduction.

For preliminary retaining wall or shoring design purposes, a lateral active earth pressure developed at a rate of 35 psf per foot of depth should be utilized for unrestrained conditions. For restrained conditions, an at rest earth pressure of 55 psf per foot of depth should be utilized. These values should be verified prior to construction when the backfill materials and conditions have been determined and are applicable only to level properly drained backfill with no additional surcharge loadings. If backfills are proposed, this firm should be contacted to develop appropriate active earth pressure parameters. Toe bearing pressure for walls on soils not subexcavated and recompacted, as described earlier under PREPARATION OF FOOTING AREAS, should not exceed UBC values.

Foundation concrete should be placed in neat excavations with vertical sides, or the concrete should be formed and the excavations properly backfilled as recommended for site fill.



Page No. 14 Job No. 02339-3

SLABS-ON-GRADE:

To provide uniform support, concrete slabs-on-grade should bear on a minimum of 24 inches of properly compacted fill. The final pad surfaces should be rolled to provide a level, dense surface.

Slabs to receive moisture-sensitive coverings should be provided with a moisture vapor barrier. This barrier may consist of an impermeable membrane. Two inches of sand over the membrane will help reduce punctures and aid in obtaining a satisfactory concrete cure. The sand should be moistened just prior to placing of concrete.

CONSTRUCTION OBSERVATION:

All grading operations, including site clearing and stripping, should be observed by a representative of the geotechnical engineer. The presence of the geotechnical engineer's field representative will be for the purpose of providing observation and field testing, and will not include any supervising or directing of the actual work of the contractor, his employees, or agents. Neither the presence of the geotechnical engineer's field representative nor the observations and testing by the geotechnical engineer shall excuse the contractor in any way for defects discovered in his work. It is understood that the geotechnical engineer will not be responsible for job or site safety on this project, which will be the sole responsibility of the contractor.

LIMITATIONS

C.H.J., Incorporated has striven to perform our services within the limits prescribed by our client, and in a manner consistent with the usual thoroughness and competence of reputable geotechnical engineers and engineering geologists practicing under similar circumstances. No other representation, express or implied, and no warranty or guarantee is included or intended by virtue of the services performed or reports, opinion, documents, or otherwise supplied.

This report reflects the testing conducted on the site as the site existed during the investigation, which is the subject of this report. However, changes in the conditions of a property can occur with the passage of time, due to natural processes or the works of man on this or adjacent properties. Changes in applicable or appropriate standards may also occur whether as a result of legislation, application, or the broadening of knowledge. Therefore, this report is indicative of only those conditions tested at the time of the subject investigation, and the findings of this report may be invalidated fully or partially by changes outside of the control of C.H.J., Incorporated. This report is therefore subject to review and should not be relied upon after a period of one year.



Page No. 15 Job No. 02339-3

The conclusions and recommendations in this report are based upon observations performed and data collected at separate locations, and interpolation between these locations, carried out for the project and the scope of services described. It is assumed and expected that the conditions between locations observed and/or sampled are similar to those encountered at the individual locations where observation and sampling was performed. However, conditions between these locations may vary significantly. Should conditions be encountered in the field, by the client or any firm performing services for the client or the client's assign, that appear different than those described herein, this firm should be contacted immediately in order that we might evaluate their effect.

If this report or portions thereof are provided to contractors or included in specifications, it should be understood by all parties that they are provided for information only and should be used as such.

The report and its contents resulting from this investigation are not intended or represented to be suitable for reuse on extensions or modifications of the project, or for use on any other project.

CLOSURE

We appreciate this opportunity to be of service and trust this report provides the information desired at this time. Should questions arise, please do not hesitate to contact this office.

Respectfully submitted,

C.H.J., INCORPORATED

Harold Scott Hoggard, Staff Geologist

Ben Williams, Senior Staff Engineer

Jay J. Martin, E.G. 15 Senior Geologist

GEOLOG, No. 1529

MARTIN

ENGINEERING GEOLOGIST 8 30 00

OF CALIFO

Robert J. Johnson, G.E. 443 Senior Vice President

Fred Yi, Ph.D.

Project Engineer





Page No. 16 Job No. 02339-3

REFERENCES

American Concrete Institute, 2000, Manual of Concrete Practice, Part 3, Table 4.3.1.

Blake, T.F., 2000, FRISKSP: A computer program for the probabilistic estimation of peak acceleration and uniform hazard spectra using 3-D faults as earthquake sources: Version 4.00.

California, State of, 1993, California Code of Regulations, Title 8, Chapter 4, Subchapter 4; Construction Safety Orders: Article 16, Excavations, Section 1539-154, pp. 140-190.

Campbell, K.W., 1997, Empirical near-source attenuation relationships for horizontal and vertical components of peak ground acceleration, peak ground velocity, and pseudo-absolute acceleration response spectra: Seismological Research Letters, v. 68, no. 1, January/February 1997, p. 154-179.

Campbell, K.W., 2000, Erratum: Empirical near-source attenuation relationships for horizontal and vertical components of peak ground acceleration, peak ground velocity, and pseudo-absolute acceleration response spectra: Seismological Research Letters, v. 71, no. 3, May/June 2000, p. 352-354.

Carson, S.E., and Matti, J.C., 1982, Contour map showing minimum depth to groundwater, upper Santa Ana River Valley, California 1973-1979: U.S. Geological Survey Open File Report 82-1128.

Dickinson, W. R., 1996, Kinematics of transrotational tectonism in the California Transverse Ranges and its contribution to cumulative slip along the San Andreas transform fault system: Geological Society of America Special Paper 305.

Dutcher, L.C., and Garrett, A.A., 1963, Geologic and hydrologic features of the San Bernardino area, California, with reference to underflow across the San Jacinto fault: U.S. Geological Survey Water Supply Paper 1419.

Epi Software, 2000, Epicenter Plotting Program.

Fumal, T.E., Pezzopane, S.K., Weldon, R.J., and Schwartz, D.P., 1993, A 100-year average recurrence interval for the San Andreas fault at Wrightwood, California: Science, v. 259, p. 199-203.

International Conference of Building Officials, 1998, California Building Code; Whittier, California.

International Conference of Building Officials, 1997, Uniform Building Code; Whittier, California.

Jacoby, J.C., Sheppard, P.R., and Sieh, K.E., 1987, Irregular recurrence of large earthquakes along the San Andreas fault: Evidence from trees, *in* Earthquake geology, San Andreas fault system, Palm Springs to Palmdale: Association of Engineering Geologists, Southern California Section, 35th Annual Meeting, Guidebook and Reprint Volume.

Johnson, J.A., Blake, T.F., Schmid, B.L., and Slosson, J.E., 1992, Earthquake site analysis and critical facility siting: Short Course, Association of Engineering Geologists, Annual Meeting, October 2-9, 1992.

Matti, J.C., Morton, D.M., and Cox, B.F., 1992, The San Andreas fault system in the vicinity of the central Transverse Ranges province, Southern California: U.S. Geological Survey Open File Report 92-354.



Page No. 17 Job No. 02339-3

REFERENCES

Mitchell, J.K. and Katti, R.I., 1981, Soil Improvement State of the Art Report, Proceedings, Tenth International Conference of Soil Mechanics and Foundation Engineering, Stockholm, General Reports, p. 264.

Morton, D.M. and Cox, B.F. 1994, Geologic map of the Riverside East Quadrangle, Riverside County, California: U.S. Geological Survey Open-File Report 88-754. Scale: 1:24,000.

Morton, D.M. and Matti, J.C., 1993, Extension and contraction within an evolving divergent strike slip fault complex: The San Andreas and San Jacinto fault zones at their convergence in Southern California: *in* Powell, R.E. and others, The San Andreas Fault System: Palinspastic Reconstruction, and Geologic Evolution: Geological Society of America Memoir 178.

Morton, D.M., and Yerkes, R.F., 1987, Introduction to surface faulting in the Transverse Ranges, California, *in* Morton, D.M., and Yerkes, R.F., eds.: Recent reverse faulting in the Transverse Ranges, California: U.S. Geological Survey Professional Paper 1339, p. 1-5.

Petersen, M.D., Bryant, W.A., Cramer, C.H., Cao, T., Reichle, M.S., Frankel, A.D., Leinkaemper, J.J., McCrory, P.A., and Schwartz, D.P., 1996, Probabilistic seismic hazard assessment for the State of California: California Division of Mines and Geology Open-File Report 96-08.

Petersen, M., Toppozada, T., Cao, T., Cramer, C., Reichle, M., Maher, M., and Atchison, L., 1998, Determining distances from faults within and bordering the State of California for the 1997 Uniform Building Code: International Conference of Building Officials, Whittier, California.

Riverside County, 1976, Seismic safety and safety element to the general plan.

Rockwell, T.K., McElwain, R.S., Millman, D.E., and Lamar, D.L., 1986, Recurrent Late Holocene faulting on the Glen Ivy North strand of the Elsinore fault at Glen Ivy marsh, *in* Ehlig, P.L., ed., Neotectonics and Faulting in Southern California, Guidebook and Volume, 82nd Annual Meeting, Cordilleran Section, Geological Society of America.

Rogers, T.H., 1966, Geologic map of California, Olaf P. Jenkins edition, Santa Ana Sheet: California Division of Mines and Geology. Scale: 1:250,000.

Saul, R., 1978, Elsinore Fault Zone (South Riverside County Segment) with Description of the Murrieta Hot Springs Fault: California Division of Mines and Geology Fault Evaluation Report 76.

Weber, F.H., 1977, Seismic hazards related to geologic factors, Elsinore and Chino fault zones, northwestern Riverside County, California: California Division of Mines and Geology Open-File Report 77-04. Scale: 1:24,000.

Western Municipal Water District, 2001, Cooperative Well Measuring Program, Covering the Upper Santa Ana River Watershed, the San Jacinto Watershed and the Upper Santa Margarita Watershed.

Wills, C.J., 1988, Ground Cracks in Wolf and Temecula Valleys, Riverside County: California Division of Mines and Geology Fault Evaluation Report 195.



Page No. 18 Job No. 02339-3

REFERENCES

Woodford, A.O., Shelton, F.S., Doehring, D.O., and Morton, R.K., 1971, Pliocene - Pleistocene history of the Perris block, southern California: Geological Society of America Bulletin, v. 82, p. 3421-3448.

Working Group on California Earthquake Probabilities, 1988, Probabilities of large earthquakes occurring in California on the San Andreas fault: U.S. Geological Survey Open-File Report 88-398.

Working Group on California Earthquake Probabilities, 1995, Seismic hazards in southern California: Probable earthquakes, 1994 to 2024: Bulletin of the Seismological Society of America, v. 85, no. 2, p. 379-439.

Yerkes, R.F., 1985, Earthquake and surface faulting sources - Geologic and seismologic setting, *in* Ziony, J.I., ed., Evaluating earthquake hazards in the Los Angeles region: U.S. Geological Survey Professional Paper 1360, p. 25-41.



Page No. 19 Job No. 02339-3

AERIAL PHOTOGRAPHS REVIEWED

Aero Tech Surveys, February 15, 2001, Black and White Aerial Photograph Numbers 1-27 and 1-28.

Fairchild Camera, September, 1931, Black and White Aerial Photographs, Flight No. C-1740, Frame Nos. B:78 and B:79.

Riverside County Flood Control and Water Conservation District, December 20, 1957, Black and White Aerial Photograph Numbers 30 and 31.

Riverside County Flood Control and Water Conservation District, May 24, 1974, Black and White Aerial Photograph Numbers 86 and 87.

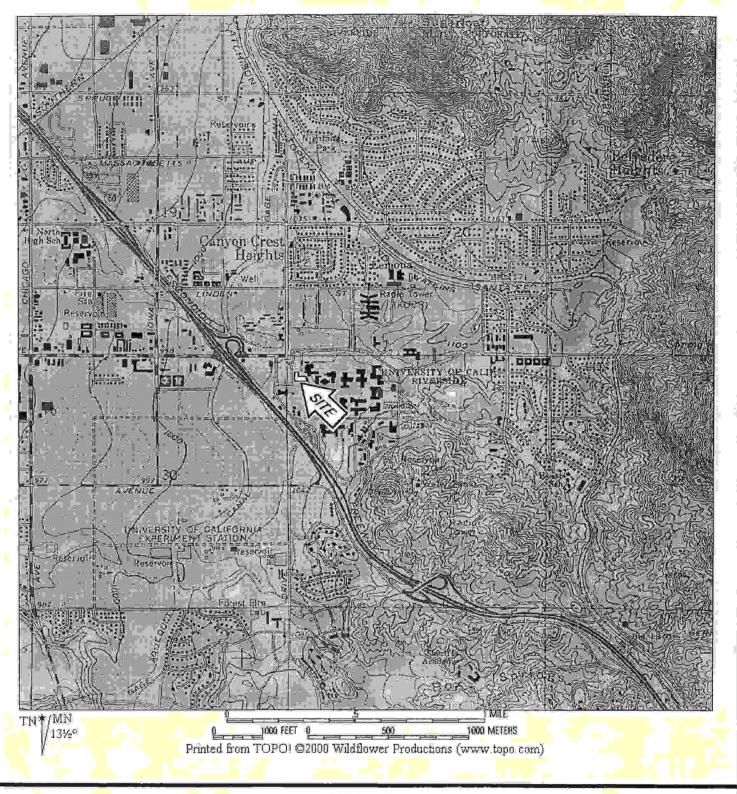
Riverside County Flood Control and Water Conservation District, January, 23, 1990, Black and White Aerial Photograph Numbers 3-15 and 3-16.

Riverside County Flood Control and Water Conservation District, February 1, 1995, Black and White Aerial Photograph Numbers 3-16 and 3-17.



APPENDIX "A"

GEOTECHNICAL MAPS



INDEX MAP

FOR: UNIVERSITY OF CALIFORNIA, RIVERSIDE

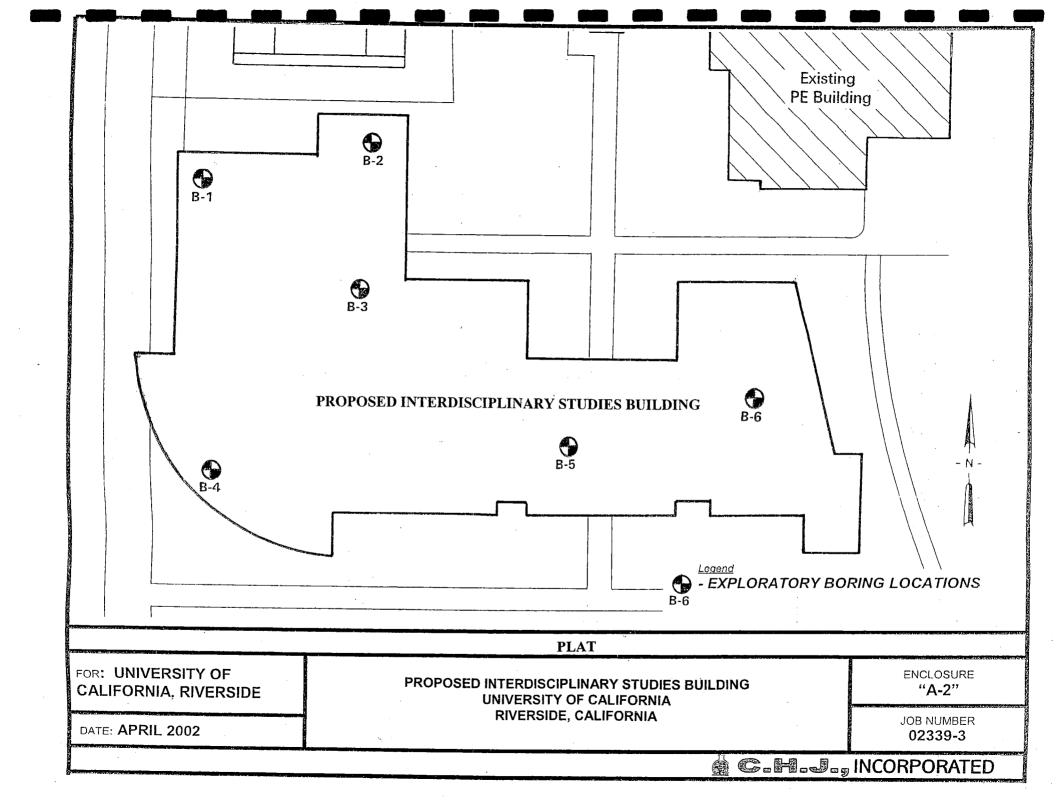
PROPOSED INTERDISCIPLINARY STUDIES BUILDING
UNIVERSITY OF CALIFORNIA
RIVERSIDE, CALIFORNIA

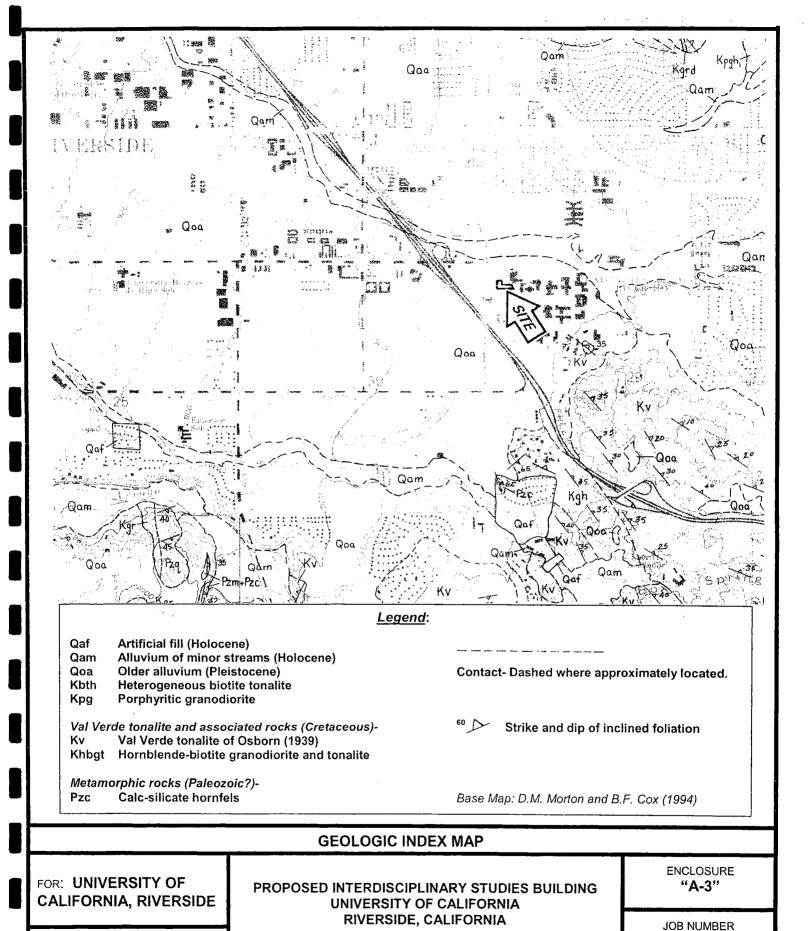
ENCLOSURE
"A-1"

DATE: APRIL 2002

JOB NUMBER 02339-3

& C.H.J., INCORPORATED

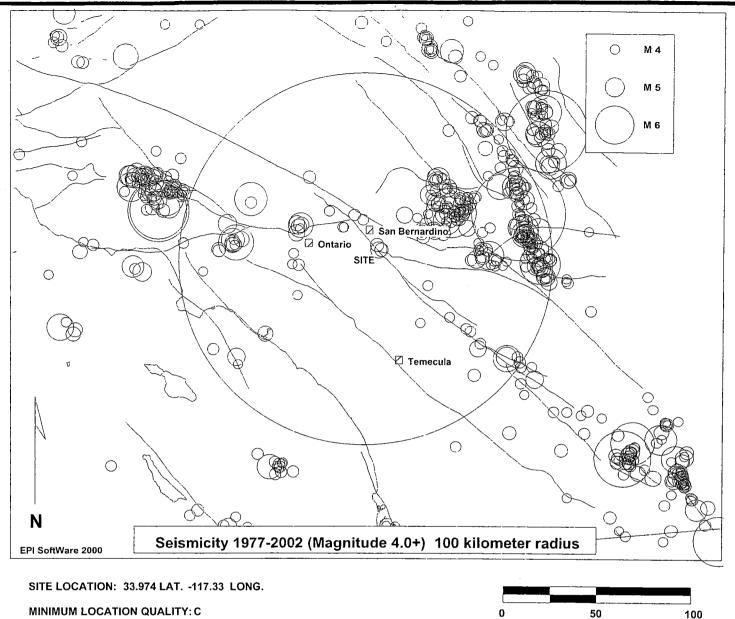




02339-3

© H.J., INCORPORATED

DATE: APRIL 2002



MINIMUM LOCATION QUALITY: C

TOTAL # OF EVENTS ON PLOT: 567

TOTAL # OF EVENTS WITHIN SEARCH RADIUS 263

MAGNITUDE DISTRIBUTION OF SEARCH RADIUS EVENTS:

4.0- 4.9 : 232 5.0-5.9: 28 6.0-6.9: 2 7.0-7.9:1 8.0-8.9:0

CLOSEST EVENT: 4.8 ON WEDNESDAY, OCTOBER 02, 198! LOCATED APPROX. 10 KILOMETERS NORTHEAST OF THE SITE

EARTHQUAKE EPICENTER MAP

FOR: UNIVERSITY OF CALIFORNIA, RIVERSIDE

PROPOSED INTERDISCIPLINARY STUDIES BUILDING **UNIVERSITY OF CALIFORNIA** RIVERSIDE, CALIFORNIA

ENCLOSURE "A-4"

JOB NUMBER 02339-3

DATE: APRIL 2002

G.H.J., INCORPORATED

KILOMETERS

APPENDIX "B"

EXPLORATORY LOGS



KEY TO LOGS

LEGEND:

DS	Direct Shear Test (ASTM D 3080)
Consol.	Consolidation Test (ASTM D 2435)
MDC	Maximum Dry Density - Optimum Moisture Content Determination (ASTM D 1557)
Ring	Indicates Undisturbed Ring Sample. Undisturbed Ring Samples are obtained with a "California Sampler" (3.00" O.D. and 2.42" I.D.) driven by an automatic hammer with a 140-pound weight falling 30 inches. The blows per foot are converted to equivalent SPT-N ₆₀ values.
SPT	Indicates Standard Penetration Test. The SPT N-value is the number of blows required to drive an SPT sampler 12 inches using 140 pound weight failing 30 inches. The SPT sampler is 2" O.D. and 1-3/8" I.D.
SS	Soluble Sulfate (EPA Method 300.0)

ENGINEERING PROPERTIES FROM SPT BLOWS

Relationship of Penetration Resistance to Relative Density for Cohesionless Soils* (After Mitchell and Katti, 1981)

No. of SPT Blows (N ₆₀)	Descriptive Relative Density	Approx. Relative Density (%)
<4	Very Loose	0-15
4-10	Loose	15-35
10-30	Medium Dense	35-65
30-50	Dense	65-85
>50	Very Dense	85-100

^{*} At an effective overburden pressure of 1 ton per square foot (100 kPa)

Our reported equivalent SPT- N_{60} blows have not been normalized for overburden pressure

SOIL CLASSIFICATION CHART

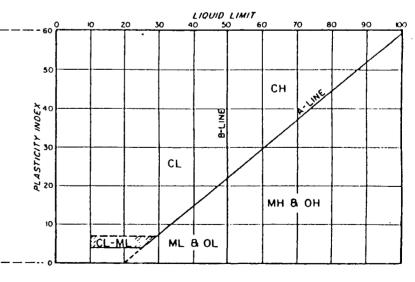
	MAJOR	DIVISIONS	GRAPH SYMBOL	LETTER SYMBOL	TYPICAL DESCRIPTIONS
	GRAVEL AND	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL-SAND Mixtures, Little or no fines
COARSE GRAINED	GRAVELLY SCILS			GP	POORLY - GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR MO FINES
SOILS	MORE THAN 50% OF COARSE FRAC-	GRAVELS WITH		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
	TION RETAINED ON NO.4 SIEVE	FINES (APPRECIABLE AMOUNT OF FINES)		GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND	CLEAN SAND (LITTLE OR NO FINES)		sw	WELL - GRADED SANDS, GRAVELLY BANDS, Little or no fines
MORE THAN 50% OF MATERIAL IS	SANDY			SP	POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
<u>LARGER</u> THAN NO 200 SIEVE SIZE	MORE THAN 50% OF COARSE FRAC	SANDS WITH FINES		SM	SILTY SANDS, SAND - SILT MIXTURES
	NO. 4 SIEVE	(APPRECIABLE AMOUNT OF FINES)		sc	CLAYEY SANDS, SAND-CLAY MIXTURES
FINE	SILTS			МL	INDRGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
GRAINED SOILS	AND CLAYS	LIQUID LIMIT LESS THAN 50		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS.
		·		OL.	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
·				мн	SANDY CLAYS, SILTY CLAYS, LEAN CLAYS. ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
MORE THAN 50% OF MATERIAL IS SMALLER THAN NO 200 SIEVE SIZE	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		СН	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
012E		· · · · · · · · · · · · · · · · · · ·		он	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTIGITY, ORGANIC SILTS
HIG	HLY ORGAN	IC SOILS		РТ	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

GRADATION CHART

	PARTICLE SIZE								
MATER	VAL SIZE	LOWER	LIMIT	UPPER LIMIT					
		MILLIMETERS	SIEVE SIZE	MILLIMETERS	SIEVE SIZE				
SAND			·	1					
	FINE	.074	#200 x	0.42	#40x				
	MEDIUM	042	#40 x	2,00	#10 x				
	COARSE	200	#10 x	4.76	* 4 r				
GRAVEL.		**		<u> </u>					
	FINE	4.76	*4 X	191	'3/4" •				
	COARSE	191	3/4"●	76 2	3"●				
COBBLES		76.2	3"	304.8	12"				
BOULDER	S	304.8	12	914.4	36"				

YUS STANDARD . CLEAR SQUARE OPENINGS

PLASTICITY CHART



UNIFIED SOIL CLASSIFICATION SYSTEM



Date Drilled: 4/2/02

Client: University of California

Equipment: CME 55 Drill Rig

Driving Weight / Drop: 140 lb/30 in

Surface Elevation (ft): N/A

Logged by: S.H.

Measured Depth to Water(ft): N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	DRIVE	BULK	BLOWS/FOOT (Equiv. SPT)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
-		(SM) Silty Sand, fine with medium and coarse, orange brown	Native	X	****	40/6"	9.7	106	Ring
- 5 -		(SM) Silty Sand, fine to medium with coarse and clay, red		X		69/11.5 ¹	6.1	127	Ring
- 10 -	- - - -	brown		X		43	7.5	128	Ring
- 15 -				X		44	3.0	116	Ring
- 20 -	1			X		50	2.6	122	Ring
- 25 -		(SM) Silty Sand, fine with medium, yellow brown		X		46	5.1	118	Ring
BORING_LOG 02339-3.GPJ CHJ.GDT 4/25/02				><		40/5"	4.5	119	Ring
BORING_LO	-						Ioh N		alogura





Date Drilled: 4/2/02

Client: University of California

Equipment: CME 55 Drill Rig

Driving Weight / Drop: 140 lb/30 in

Surface Elevation (ft): N/A

Logged by: S.H.

Measured Depth to Water(ft): N/A

				SAM	PLES	OT)	(%)	WT.	
DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	DRIVE	BULK	BLOWS/FOOT (Equiv. SPT)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
-	- 3	(SM) Silty Sand, fine with medium, yellow brown		$\overline{\mathbb{X}}$		30	6.3	118	Ring
- - - 40 -	- - -					40/61		116	n:
<u> </u>	- -					40/6"	6.9	116	Ring
-		(SP-SM) Sand, fine with medium, coarse and silt, yellow brown			***		3.2		
- 45 -	-	Otown		×		40/6"	3.1	118	Ring
-		(SP-SM) Sand, fine to medium with coarse and silt,	<u> </u> 		***		3.6		
- 50 ·		yellow brown END OF BORING		=		40/2"	N.R.	N.R.	Ring
- 55		NO BEDROCK							
-	- -	NO REFUSAL NO FILL NO FREE GROUNDWATER						:	
- 60	-								
BORING LOG 02339-3.GPJ CHJ.GDT 4725/02								i	
) - 65	-								
2339-3.6	1								
0 500 0	1								
BORING	1								



INTERDISCIPLINARY STUDIES BUILDING UCR CAMPUS, RIVERSIDE

Job No. Enclosure 02339-3 B-1b

Date Drilled: 4/2/02

Client: University of California

Equipment: CME 55 Drill Rig

Driving Weight / Drop: 140 lb/30 in

Surface Elevation (ft): N/A

Logged by: S.H.

Measured Depth to Water(ft): N/A

Г			· · · · · · · · · · · · · · · · · · ·		SAM	PLES	Ţ	(%	Ţ.	
	DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	DRIVE	BULK	BLOWS/FOOT (Equiv. SPT)		DRY UNIT WT. (pcf)	LAB/FIELD TESTS
F	-		(SM) Silty Sand, fine with medium, coarse and clay, brown	Native				10.2		
+	-				×		40/6"	9.5	122	Ring
-	5 -		(SM) Silty Sand, fine with medium, coarse and clay, red brown					8.4		
-		-			X		26	8.3	129	Ring
-	10 -	-								
-		-			X	2	49	6.4	129	Ring
-	15 -	-								
					\times		72/10"	8.5	128	Ring
	20 -									
-		-			\times		40/6"	8.3	117	Ring
 	25 -									
BORING LOG 02339-3.GPJ CHJ.GDT 4/25/02		- -			×		40/6"	10.1	114	Ring
공	30 -		END OF BORING							
02339-3.G		_	NO BEDROCK NO REFUSAL NO FILL							
ING LOG			NO FREE GROUNDWATER							
BOR.										



INTERDISCIPLINARY STUDIES BUILDING UCR CAMPUS, RIVERSIDE

Job No. Enclosure 02339-3

B-2

Date Drilled: 4/2/02

Client: University of California

Equipment: CME 55 Drill Rig

Driving Weight / Drop: 140 lb/30 in

Surface Elevation (ft): N/A

Logged by: S.H.

Measured Depth to Water(ft): N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	DRIVE	BULK	BLOWS/FOOT (Equiv. SPT)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
-		(SM) Silty Sand, fine to medium with coarse and clay, light brown	Native	X		48	8.4 5.5	127	Ring
- 5				X		57	11.9	124	Ring
- 10 - 10	-			\geq		40/6"	14.0	122	Ring
- 15 -		(SM) Silty Sand, fine with medium, coarse and clay, red brown		X		49	9.6	129	Ring
- 20				×		40/6"	8.1	126	Ring
- 25 - 25				X		40/6"	9.6	124	Ring
BORING_LOG 02339-3.GPJ CHJ.GDT 4/25/02		END OF BORING NO BEDROCK, NO REFUSAL,		X		40/5.5"	7.7	112	Ring
BORING LO	-	NO FILL, NO FREE GROUNDWATER			ļ Į				



INTERDISCIPLINARY STUDIES BUILDING UCR CAMPUS, RIVERSIDE

Job No. Enclosure 02339-3 B-3

Date Drilled: 4/2/02 Client: University of California

Equipment: CME 55 Drill Rig Driving Weight / Drop: 140 lb/30 in

Surface Elevation (ft): N/A Logged by: S.H. Measured Depth to Water(ft): N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	DRIVE	BULK	BLOWS/FOOT (Equiv. SPT)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
<u>A</u>	D T	(SM) Silty Sand, fine to medium with coarse, red brown	∑4 Native		B		7.1 8.8	125	Ring
5 -				<u> </u>		40/6"	N.R.	N.R.	Ring
- 10 -	- - - -	(SP-SM) Sand, fine to medium with coarse and silt,		X		30	N.R. 3.2	N.R.	Ring
- 15 -	-	yellow brown		X	,	51	2.9	121	Ring
20 -				X		51	5.1	115	Ring
- 25 -		END OF BORING NO BEDROCK		\times		40/6"	7.1	116	Ring
BORING LOG 02339-3.6PJ CHJ.GGT 475/02	-	NO REFUSAL NO FILL NO FREE GROUNDWATER							
<u> Δ</u>			<u></u>		<u> </u>		Ich Ni	_	alagura



Date Drilled: 4/2/02

Client: University of California

Equipment: CME 55 Drill Rig

Driving Weight / Drop: 140 lb/30 in

Surface Elevation (ft): N/A

Logged by: S.H.

Measured Depth to Water(ft): N/A

_										
	DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	DRIVE	BULK	BLOWS/FOOT (Equiv. SPT)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
	-		(SM) Silty Sand, fine to medium with coarse, red brown	Native	×	****	40/5"	10.5	122	Ring
-	5 -		(SM) Silty Sand, fine to medium with coarse, orange brown		\times	***	40/6"	10.2 N.R.	N.R.	Ring
	10 -		(SM) Silty Sand, fine to medium with coarse, red brown	-	X		30	7.6 3.8	115	Ring
-	15 -		(SP-SM) Sand, fine to medium with coarse and silt, dark yellow brown		X		32	5.4	114	Ring
	20 -	-			X		58	4.9	124	Ring
T 4/25/02	25 -		(SP-SM) Sand, fine to medium with coarse and silt, red brown				54	6.8 8.2	122	Ring
BORING_LOG_02339-3.GPJ_CHJ.GDT_4/25/02	30 -		END OF BORING		\boxtimes		40/6"	10.1	122	Ring
BORING LOC		-	NO BEDROCK, NO REFUSAL, NO FILL, NO FREE GROUNDWATER							



INTERDISCIPLINARY STUDIES BUILDING UCR CAMPUS, RIVERSIDE

Job No. Enclosure 02339-3 B-5

Date Drilled: 4/2/02

Client: University of California

Equipment: CME 55 Drill Rig

Driving Weight / Drop: 140 lb/30 in

Surface Elevation (ft): N/A

Logged by: S.H.

Measured Depth to Water(ft): N/A

				,						
	DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	DRIVE	BULK	BLOWS/FOOT (Equiv. SPT)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
-		- - - -	(SM) Silty Sand, fine with medium and coarse, dark yellow brown	Native	X		38	5.8	119	Ring
	5 -	-	(SM) Silty Sand, fine with medium and coarse, red brown		X		35	11.8	111	Ring
BORING_LOG 02339-3.GPJ CHJ.GDT 4/25/02	10 -		(SM) Silty Sand, fine with medium, coarse and clay, red brown				55	8.1 7.7	133	Ring
	15 -				×		46	8.4	126	Ring
	20 -	-	(SP-SM) Sand, fine to medium with coarse and silt, dark yellow brown		×		62	5.8	123	Ring
	25 -	- -			×		50	4.7	117	Ring
	30 -	- - - -					64	3.9	121	Ring
<u></u>		<u> </u>		<u> </u>		L		I.b.NI	- E-	



INTERDISCIPLINARY STUDIES BUILDING UCR CAMPUS, RIVERSIDE

Job No. Enclosure 02339-3

B-6a

LOG OF BORING 6

Date Drilled: 4/2/02

Client: University of California

Equipment: CME 55 Drill Rig

Driving Weight / Drop: 140 lb/30 in

Surface Elevation (ft): N/A

Logged by: S.H.

Measured Depth to Water(ft): N/A

DEPTH (ft)	GRAPHIC LOG	VISUAL CLASSIFICATION	REMARKS	DRIVE	BULK	BLOWS/FOOT (Equiv. SPT)	FIELD MOISTURE (%)	DRY UNIT WT. (pcf)	LAB/FIELD TESTS
- 40	-	(SP-SM) Sand, fine to medium with coarse and silt, dark yellow brown		X		54	3.7	114	Ring
- 45		(SM) Silty Sand, fine with medium, coarse and clay, orange brown				70/9"	13.5	125	Ring
- - -		(SP-SM) Sand, fine to medium with coarse and silt, yellow brown END OF BORING		×		40/6"	4.5	108	Ring
- 50		NO BEDROCK NO REFUSAL NO FILL NO FREE GROUNDWATER							
55									
N.GDT 4/25/02									
BORING LOG 02339-3.GPJ CHJ.GDT 4/25/02	-								
BORING	<u> </u>						Joh Ni	En	



INTERDISCIPLINARY STUDIES BUILDING UCR CAMPUS, RIVERSIDE

Job No. 02339-3 Enclosure

B-6b

APPENDIX "C"

LABORATORY TESTING

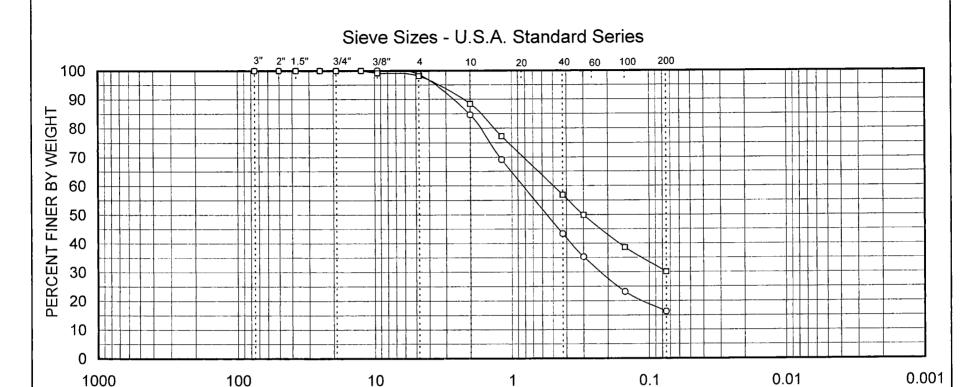


TEST DATA SUMMARY

OPTIMUM MOISTURE - MAXIMUM DENSITY RELATION:

ASTM D 1557-91

Boring No.	Depth of Sample (ft.)	Classification	Optimum Moisture (Percent)	Maximum Dry Density(pcf)
1	0.0	Silty Sand, fine with medium, orange brown (SM)	10.5	128.5
1	7.0	Silty Sand, fine with medium, red brown (SM)	8.0	134.0
6	5.0	Silty Sand, fine with medium, red brown (SM)	10.5	126.5



GRAIN SIZE IN MILLIMETRES

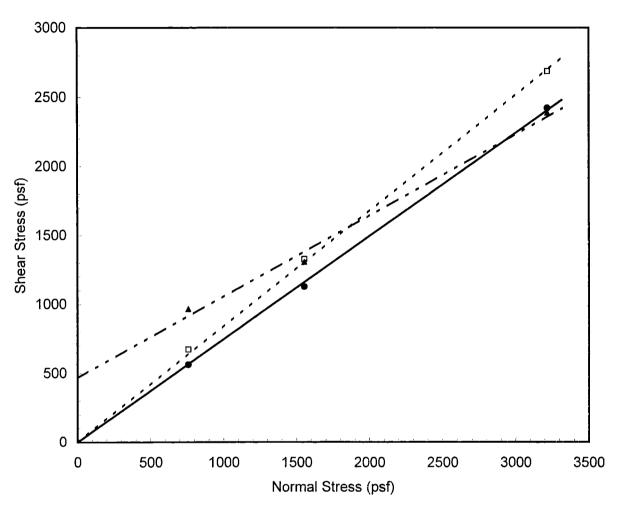
Cabbles & Daviders	Gra	avel		Sand		Silt or Clay
Cobbles & Boulders	Coarse	Fine	Coarse	Medium	Fine	·

Symbol	Boring	Depth (ft)		Classification
0	1	7	SM	Silty sand, fine to coarse with gravel to 1/4"
	6	5	SM	Silty sand, fine to medium with coarse and gravel to 3/8"



	Gradation Cu	rves			
Project:	Proposed Interdisciplinary Studies Building				
Location:	University of California, Riverside				
Job Number:	02339-3	Enclosure: C-2			

Direct Shear Test



Во	Boring # Depth(ft)		Soil/Sample Type		MC(%)	C (psf)	φ(°)
•	1	7	Silty sand, fine to coarse with gravel to 1/4" (Sm) / Molded	127	6.1	0	36.8
0	6	5	Silty sand, fine to medium with coarse and gravel to 3/8" (SM) / Molded	111	11.8	0	40.0
A	6	7	Silty sand, fine to medium with coarse and gravel to 3/8" (SM) / Undisturbed	111	10.7	466	30.5
		<u> </u>					



DIRECT SHEAR TEST

Proposed Interdisciplinary Studies Building

Location: University of California, Riverside

Job Number: 02339-3 Enclosure: C-3 Consulting Corrosion Engineers - Since 1959

1308 Monte Vista Avenue, Suite 6 Upland, CA 91786-8224 Phone: 909/931-1360

Table 1 - Laboratory Tests on Soil Samples

Your #02339-3, MJS&A #02-0355LAB 15-Apr-02

> 5,100 2,700

Sampl	e 11)

Resistivity

as-received

saturated

-		2A
	- - (新1941年1194月 1111年前第5	@ 0'
	· 例如,是15人的10家的第三	

Units

ohm-cm

ohm-cm

pН			6.6
Electrical			
Conductivity		mS/cm	0.11
Chemical Analyse	es		
Cations			
calcium	Ca ²⁺	mg/kg	20
magnesium	Mg^{2+}	mg/kg	7
sodium	Na ¹⁺	mg/kg	66
Anions			
carbonate	CO_3^{2-}	mg/kg	ND
bicarbonate	HCO ₃ ¹	mg/kg	116
chloride	Cl ¹⁻	mg/kg	30
sulfate	SO_4^{2-}	mg/kg	83
Other Tests			
ammonium	NH ₄ ¹⁺	mg/kg	5.9
nitrate	NO_3^{1-}	mg/kg	1.8
sulfide	S^{2-}	qual	. na
Redox		mv	na
			Telephone (Fig.

Electrical conductivity in millisiemens/cm and chemical analysis were made on a 1:5 soil-to-water extract. mg/kg = milligrams per kilogram (parts per million) of dry soil.

Redox = oxidation-reduction potential in millivolts

ND = not detected

na = not analyzed



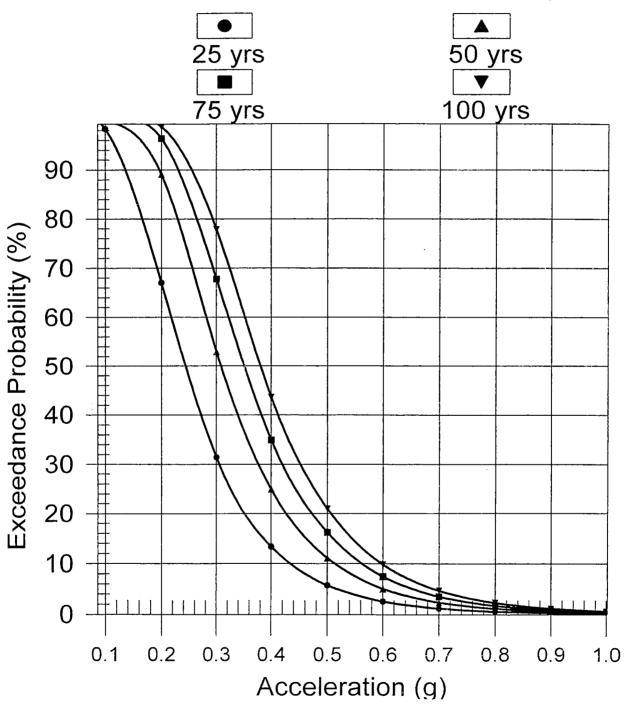
APPENDIX "D"

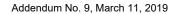
SEISMIC DATA

ENCLOSURE: "D-1" JOB NO.: 02339-3

PROBABILITY OF EXCEEDANCE

BOORE ET AL(1997) NEHRP C (520)1





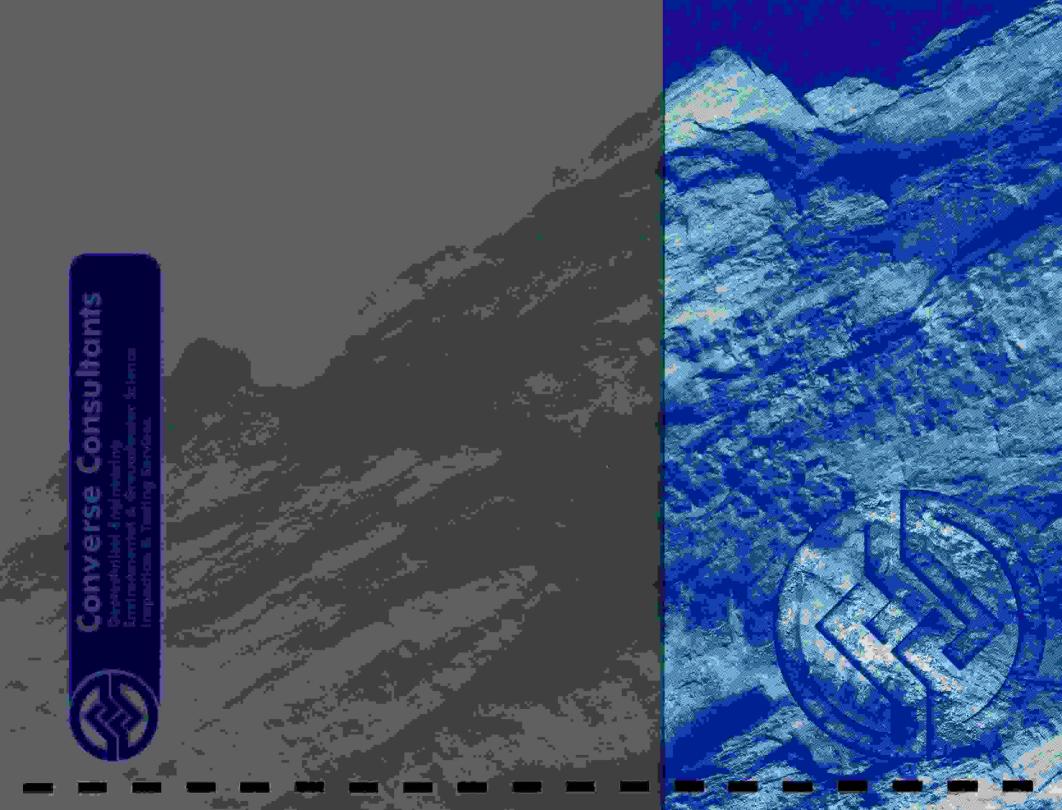




COMPRESSION TEST RESULTS

PROJECT NAME:		UCR- Chass Bu	ilding		JOB NO:	05-1425	
PROJECT ADDR	ESS:	3615 Canyon Crest Drive, Riverside, CA 92507			LAB NO:	3169	
CLIENT NAME: CLIENT ADDRES	SS:	S.J. Amoroso C 275 East Baker Costa Mesa, CA					
SPECIMEN TYPE	:	Concrete	_				
LOCATION IN S	TRUCTURE:		Foundation Footing	s @ G/1			
MIX NO:	CHJ05370	_ MEA	ASURED SLUMP (in):	4	SPEC'D PSI:	3000	
AIR CONTENT:	N/A	_	AMBIENT TEMP:	50	CONCRETE TEMP:	60	
SUPPLIER:	Robertson's		_DIAMETER (in):	6	AREA (sq. in.):	28.28	
DATE CAST:	3/7/2006	TIME CAST	2:38am	CAST BY:	Gary Branstetter	CO.: RTE	
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (Ibf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE	
1	7	3/14/2006	135,660	4,797	D		
2	28	4/4/2006		0			
3	28	4/4/2006					
4	Hold						
	-						
*	Compressio	n test results w	B), CONE & SHEAR (
			'2, C1231 & C1064. vere not satisfactory				
	REMARKS:						
		Dr. Sanjay Gov	vil, P.E. License Nun	nber 51523			

INSPECTION MATERIALS TESTING GEOTECHNICAL



950377 REPORTS

GEOTECHNICAL OBSERVATION OF GRADING AND FIELD DENSITY TEST RESULTS REPORT

Proposed College of Humanities Arts and Social Sciences (CHASS)

Buildings - Instruction & Research Facility

University of California, Riverside Campus

Riverside, California

September 21, 2006

Converse Project No. 05-81-248-30



Converse Consultants

Geotechnical Engineering, Environmental & Groundwater Science, Inspection & Testing Services

September 21, 2006

Mr. Darius Mareufkhani Senior Project Manager University of California-Riverside Campus 3615A Canyon Crest Drive Riverside, CA 92507

Subject:

GEOTECHNICAL OBSERVATION OF GRADING AND FIELD DENSITY

TEST RESULTS REPORT

Proposed College of Humanities Arts and Social Sciences (CHASS)

Buildings - Instruction & Research Facility University of California, Riverside Campus

Riverside, California

Converse Project No. 05-81-248-30

Dear Mr. Mareufkhani:

Converse Consultants (Converse) has prepared this report to present the results of our geotechnical observations and field density and laboratory testing performed during grading and utility trench backfill for CHASS Instruction and Research Facility Building. These services were performed in accordance with our revised proposal dated December 16, 2005 and your Professional Services Agreement dated December 19, 2005.

Field density tests were performed in accordance with the ASTM Standard D1556 (Sand Cone) and D2922 (Nuclear Gauge) test methods to determine the in-place density of compacted fill soils. Results of the field density tests performed during grading are summarized in Table No. A-1, *Field Density Test Results*, in Appendix A, *Field Density Test Results*. Laboratory testing performed during grading included tests to determine maximum dry density and optimum moisture relationships, remolded direct shear and remolded consolidation test of the soils used as compacted fill. The results of these laboratory tests are summarized in Appendix B, *Laboratory Testing Program*.

Based on the results of our field observations, in-place density and laboratory testing, it is our opinion that the earthwork associated with the grading and utility trench backfill has been completed in substantial compliance with the project plans and specifications.



We appreciate this opportunity to be of continued service to University of California-Riverside Campus. If you have any questions or need additional information, please do not hesitate to contact us at (909) 796-0544.

NO. 67997

OF CALIFO

CONVERSE CONSULTANTS

Gennady Tsarev, P. E. Project Engineer

Dist.: 4/Addressee

GT/RJR/HSQ/mjr

TABLE OF CONTENTS

1.0	INTRODUCTION	- 1
2.0 2.1 2.2 2.3	PROJECT DESCRIPTION GENERALSITE CONDITIONS PRIOR TO GRADING	- 1 - 1
3.0	SCOPE OF WORK	- 2
4.0	SITE GEOLOGY AND GROUNDWATER	- 2
4.1 4.2 4.3	Pre-grading Geologic Conditions Geologic Conditions Observed During Grading Groundwater	-2
5.0	FAULTING AND SEISMICITY	- 3
6.0	GRADING AND EARTHWORK	- 3
7.0 7.1 7.2 8.0 9.0 10.0	FIELD DENSITY AND LABORATORY TEST RESULTS	- 4 - 5 - 5
	ILLUSTRATIONS	
	FIGURE Following Page N	О.
Figure	No. 1, Site Location Map	.1
	DRAWING	
Drawii	ng No. 1, Field Density Test Location MapIn Map Pocke	∋t

APPENDICES

Appendix A	Field Density	Test Results
Appendix B		

1.0 INTRODUCTION

This report contains the results of our geotechnical field observations, in-place density and laboratory testing performed during grading and utility trench backfill for CHASS Instruction and Research Facility Building, located within University of California, Riverside (UCR) Campus in Riverside, California.

The earthwork was performed in accordance with the requirements and recommendations set forth in the project Grading and Drainage Plans prepared by KPFF Consulting Engineers, entitled "University of California, Riverside, College of Humanities, Arts & Social Sciences CHASS-Instruction & Research Facility", dated April 2005, grading requirements of Appendix Chapter 33 of the California Building Code (CBC, 2001).

Information on anticipated subsurface conditions and recommendations for the project site development including earthwork, were provided in the "Report of Geotechnical Investigation" prepared by Mactec, presented in the reference section of this report.

This report was prepared for the project described herein and was intended for the sole use of University of California-Riverside Campus and its authorized agent(s). It may not contain sufficient information for use by others and/or for any other purposes.

2.0 PROJECT DESCRIPTION

2.1 General

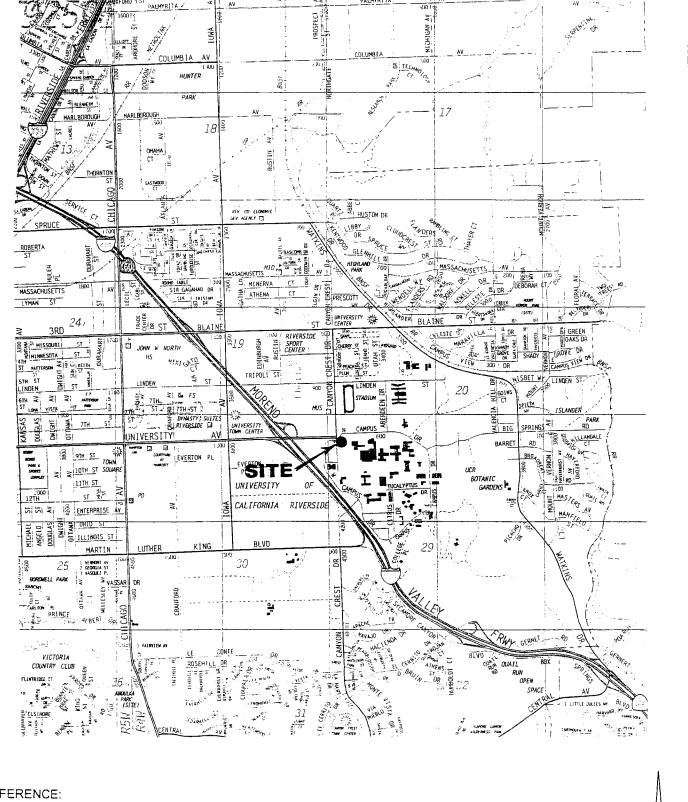
The project site is located within University of California Riverside (UCR) Campus at the intersection of University Avenue and Canyon Crest Drive. The site location is shown in Figure No. 1, Site Location Map.

2.2 Site Conditions Prior to Grading

Prior to grading, the site had relatively flat topography occupied by existing tennis courts and parking lots. There was 5 to 8 foot high retaining wall at the south boundary of the site. Ground elevations at the site ranged from 1,037 to 1,049 feet above Mean Sea Level.

2.3 Proposed Development

The project consists of two (2), four-story buildings (North and South Buildings) interconnecting by approximately 30 foot long bridge. The North Building will have



REFERENCE:

THE THOMAS GUIDE, THOMAS BROS. MAPS, RIVERSIDE COUNTIES, 2003 EDITION, PAGE 686.



CHASS INSTRUCTION & RESEARCH FACILITY Riverside, California

For: University of California Riverside

Project No.

05-81-248-30

Figure No.



1

15,000 square feet and South Building will have 18,500 square feet. A basement, 10 feet deep is planned at the southeast corner of the South Building. The buildings will be constructed of reinforced concrete, steel and masonry blocks.

3.0 SCOPE OF WORK

Our scope of work for this project included full-time observation of grading and utility trench backfill, field density and laboratory testing to verify earthwork compliance with the project specifications. Our scope of work also included providing necessary geotechnical consultation services.

4.0 SITE GEOLOGY AND GROUNDWATER

A general description of the site-specific geologic hazards is presented in the referenced *Report of Geotechnical Investigation*. This section presents a description of the subsurface conditions, various materials and groundwater conditions encountered at the site during grading.

4.1 Pre-grading Geologic Conditions

Based on the project *Report of Geotechnical Investigation*, the alluvial soils consisted of mixtures of silt and sand with gravel and some clay.

4.2 Geologic Conditions Observed During Grading

Alluvial soils consisting of silty sand/sandy silt with trace to little gravel and clay were encountered in the areas of earthwork as anticipated. The unsuitable materials were removed to competent alluvial deposits prior to placement of compacted fill.

No unusual geologic conditions were encountered during grading.

4.3 Groundwater

Groundwater was not encountered in the exploratory borings at the time of the soil investigation as reported in the referenced *Geotechnical Investigation Report*. No groundwater was encountered or observed in any of the excavations during grading.

5.0 FAULTING AND SEISMICITY

The faulting and seismicity discussions are presented in the referenced *Geotechnical Investigation Report.*

6.0 GRADING AND EARTHWORK

6.1 North and South Buildings

Prior to grading, the ground surface was grubbed of any vegetation and surface debris. All debris was removed and disposed of off the site.

In general, about two (2) feet of undocumented fill and native soils within building areas were removed and replaced with compacted fill.

The bottom of the excavations were scarified to the depth of twelve (12) inches, moisture conditioned within three (3) percent of optimum and compacted to a minimum of 90 percent of the laboratory maximum dry density. Minimum 85 percent compaction was required for tests taken on native soils at the bottom of excavations. The field density tests were performed in accordance with either the ASTM Standard D1556 or ASTM Standard D2922 test methods.

North Building

During excavation for the west portion of the North Building, loose sand lenses were encountered at the bottom of excavation. The basement area was excavated an additional eight (8) feet to firm native soils. Excavated site soils were placed as compacted fill. Fill was placed in loose, 6-inch to 8-inch thick lifts, mixed and moisture conditioned if necessary to within three (3) percent optimum moisture, and compacted to at least 90 percent of the laboratory maximum dry density. Fill placed within the west portion of the North Building was compacted to at least 95 percent of the laboratory maximum dry density to reduce settlement.

South Building

About 10 feet of additional excavation was required for the South Building basement. Deep excavations, about 10 feet in depth were also performed at west portion of the South Building to provide access to the basement area. Excavated site soils were placed as compacted fill. Fill was placed in loose, 6-inch to 8-inch thick lifts, mixed and moisture

conditioned if necessary to within three (3) percent optimum moisture, and compacted to at least 90 percent of the laboratory maximum dry density.

A total of three (3) to ten (10) feet of compacted fill under both building foundations and slab-on-grade were placed. The backfill was also placed around building basement walls to the finish ground surface.

6.2 Landscape Areas

Prior to grading, the ground surface was grubbed of any vegetation and surface debris. All deleterious debris was removed and disposed off-site.

About two (2) feet of undocumented fill and native soils were removed and replaced with compacted fill.

The bottom of the excavations were scarified to the depth of twelve (12) inches, moisture conditioned within three (3) percent of optimum and compacted to a minimum of 90 percent of the laboratory maximum dry density.

Excavated site soils were placed as compacted fill. Fill was placed in loose, 6-inch to 8-inch thick lifts, mixed and moisture conditioned if necessary to within three (3) percent optimum moisture, and compacted to at least 90 percent of the laboratory maximum dry density. Up to three (3) feet of fill was placed in the landscape areas. The field density tests were performed in accordance with either the ASTM Standard D1556 or ASTM Standard D2922 test methods.

7.0 FIELD DENSITY AND LABORATORY TEST RESULTS

7.1 Field Density Test Results

At the end of each working day, the soil technician prepared a *Daily Field Report* documenting the geotechnical observations made during the day.

Nuclear Gauge (ASTM Standard D2922) and/or Sand Cone (ASTM Standard D1556) test methods were utilized to evaluate the in-place density of compacted fill at random locations. The results of the field density tests performed during finish grading are summarized in Table No. A-1, *Field Density Test Results*, in Appendix A, *Field Density Test Results*. The approximate locations of the field density tests are shown in Drawing No. 1, *Approximate Field Density Test Location Map*.

The relative compaction for each field density test reported is obtained by dividing the measured in-place dry density by the maximum laboratory dry density of the same "soil type" presented in Table No. B-1, *Laboratory Maximum Dry Density and Optimum Moisture Content Tests*, in Appendix B, *Laboratory Testing Program*.

7.2 Laboratory Test Results

Five (5) representative bulk samples of the native fill soils were retrieved during grading and tested in the laboratory to determine their laboratory maximum dry density/optimum moisture contents. These tests were performed in accordance with the ASTM Standard D1557 test method. Results of these tests are summarized in Table No. B-1, *Laboratory Maximum Dry Density and Optimum Moisture Content Tests*.

A direct shear test was performed on samples remolded to 95 percent of the laboratory maximum dry density. The test results are presented in Appendix B, *Laboratory Testing Program*. The results indicate that the site soils compacted to 95 percent have moderate shear strength.

A consolidation test was performed on a sample remolded to 95 percent of laboratory maximum dry density. The results of these tests are included in Appendix B, *Laboratory Testing Program*.

8.0 DESIGN AND CONSTRUCTION RECOMMENDATION

The design and construction recommendations presented in the referenced *Geotechnical Investigation Report* are still applicable for the project.

9.0 LIMITATIONS

The conclusions and opinions contained in this report were prepared in accordance with generally accepted professional engineering and engineering geologic principles and practice within our profession in effect at this time in Southern California. Our conclusions are based on field observation, field and laboratory testing performed in accordance with applicable industry standards, data analysis/interpretation and our experience. We make no other warranty, either expressed or implied.

Our field density testing to evaluate fill compaction was performed at random and discrete locations and at various time intervals during the fill placement operations. Our test results are considered representative of the locations and material tested within the

compacted fill. Some variations in the densities and moisture of compacted fill at other locations should be expected.

This report presents opinion formed as results of our observation of fill placement and density testing of compacted fill. We have relied on the contractor to continue applying the recommended compaction efforts and moisture to the fill to meet the project specifications. The tests were performed on compacted fill in accordance with ASTM Standards to calibrate our observer's judgment, and to provide data on the overall compactive efforts.

10.0 REFERENCES

- ANNUAL BOOK OF ASTM STANDARDS (Latest Edition), Vol. 04.08, Soil and Rock; Dimension Stone; Geosynthetics.
- CALIFORNIA BUILDING STANDARDS COMMISSION (2001), California Building Code.
- CONVERSE CONSULTANTS, Field Density Test Results Report, Proposed College of Humanities Arts and Social Sciences (CHASS) Buildings Instruction & Research Facility, University of California, Riverside Campus, Riverside, California, Converse Project No. 05-81-248-30, Dated August 22, 2006
- MACTEC, "Report of Geotechnical Investigation, Proposed College of Humanities Arts and Social Sciences (CHASS) Buildings Instruction and Research Facilities, 900 University Drive, University of California, Riverside (UCR), Riverside, California, UCR Project Number 950377, Project No. 4953-03-3141, Dated October 21, 2003.

APPENDIX A FIELD DENSITY TEST RESULTS

		200300000000000000000000000000000000000							Page A
		Table No.	A-1, Fi	eld Den	sity Tes	st Resu	ilts		
Test No.	Test Date	Test Location	Approximate Test Elevation	Approximate Fill Below	Dry Density (pcf)	Moisture Content (%)	Soil Type	Compaction (%)	Remarks (90% Req., unless noted)
	1		G	RADING	18 (8)			n tra	
1	01/11/06	GRID C / 5	1037	0	121.0	11.7	3	92	втм
2	01/13/06	GRID E / 3	1040	0	118.0	10.0	1	94	ВТМ
3	01/13/06	GRID E / 2	1035	0	121.2	4.6	3	92	ВТМ
4	01/13/06	GRID D / 2	1040	0	114.8	10.1	2	92	ВТМ
5	01/16/06	GRID D / 2	1036	0	122.6	9.2	3	93	ВТМ
6	01/16/06	GRID C / 4	1039	2	122.6	9.5	3	93	
7	01/16/06	GRID C / 3	1040	3	126.5	7.1	3	96	
8	01/16/06	GRID D / 5	1038	1	123.4	8.2	3	94	
9	01/20/06	GRID F / 8	1031	2	125.5	8.6	3	95	
10	01/20/06	GRID F / 8	1033	4	125.1	6.0	3	95	
11	01/20/06	GRID E / 8	1029	0	118.1	8.7	3	90	ВТМ
12	01/20/06	GRID F / 8	1035	5	124.5	7.7	3	95	
13	01/20/06	GRID E / 7	1031	2	125.8	8.9	3	95	
14	01/20/06	GRID E / 7	1033	4	126.1	8.6	3	96	
15	01/20/06	LANDSCAPE AREA, GRID E / 5	1035	0	114.4	13.2	3	87	ВТМ
16	01/20/06	LANDSCAPE AREA, GRID E / 4	1038	2	120.2	9.4	3	91	
17	01/20/06	LANDSCAPE AREA, GRID F / 6	1037	1	123.0	11.2	3	93	
18	01/20/06	LANDSCAPE AREA, GRID E / 6	1038	3	121.4	9.0	3	92	
19	01/20/06	NORTH BLDG., GRID F / 8	1036	6	125.6	8.6	3	95	95% Reg.
20	01/20/06	NORTH BLDG., GRID F / 7	1035	6	126.3	9.8	3	96	95% Reg.
21	02/01/06	NORTH BLDG., GRID C / 7	1026	0	113.4	9.5	2	90	ВТМ
22	02/01/06	NORTH BLDG., GRID C / 8	1024	0	112.2	7.5	5	92	ВТМ
23	02/01/06	NORTH BLDG., GRID D / 8	1024	0	118.4	9.8	2	94	ВТМ
18i	03/31/06	NORTH BLDG., GRID F / 8	1030	2	115.9	8.4	2	93	
19i	04/04/06	NORTH BLDG., GRID F / 8	1032	4	128.1	9.3	7	97	
20i	04/04/06	NORTH BLDG., GRID D / 8	1032	4	117.1	7.4	3	96	

									Page A-
	7	Table No.	A-1, Fie	ld Dens	ity Tes	t Resu	lts		i and i de la company de l La company de la company d
Test No.	Test Date	Test Location	Approximate Test Elevation (R)	Approximate Fill Below Test (#)	Dry Density (pcf)	Moisture Content (%)	Soil Type	Compaction (%)	Remarks (90% Req. unless noted)
21i	04/04/06	NORTH BLDG., GRID F / 8	1034	6	123.8	7.9	7	94	
22i	04/04/06	NORTH BLDG., GRID E / 7	1034	6	117.4	7.7	3	96	
23i	04/04/06	NORTH BLDG., GRID D / 7	1034	6	122.5	7.2	7	93	
24	04/10/06	NORTH BLDG. BASEMENT, GRID C / 8	1036	2	124.6	7.1	2	99	
25	04/10/06	NORTH BLDG. BASEMENT, GRID D / 8	1037	2	123.8	6.5	2	99	
26	04/10/06	NORTH BLDG. BASEMENT, GRID D / 8	1036	2	130.0	6.5	7	99	
27	04/10/06	NORTH BLDG. BASEMENT, GRID D / 8	1037	1	126.2	6.3	7	95	
28	04/10/06	NORTH BLDG. BASEMENT, GRID D / 8	1037	1	123.7	5.4	2	98	
29	04/10/06	NORTH BLDG. BASEMENT, GRID C / 8	1038	3	128.8	6.7	7	97	
30	04/10/06	NORTH BLDG. BASEMENT, GRID D / 8	1038	3	128.0	7.0	7	97	
31	04/10/06	NORTH BLDG. BASEMENT, GRID D / 8	1037	3	131.6	7.0	7	99	
32	04/11/06	SOUTH BLDG. BASEMENT, GRID E / 2	1035	1	121.8	10.7	7	92	
33	04/11/06	SOUTH BLDG. BASEMENT, GRID D / 2	1035	1	122.6	8.0	7	93	
34	04/11/06	SOUTH BLDG. BASEMENT, GRID E / 3	1031	1	119.7	8.4	7	90	
35	04/11/06	SOUTH BLDG. BASEMENT, GRID D / 3	1031	1	119.2	7.8	7	90	
36	04/11/06	SOUTH BLDG. BASEMENT, GRID D / 3	1031	1	132.5	8.1	7	95	
37	04/11/06	SOUTH BLDG. BASEMENT, GRID D / 2	1036	2	124.3	7.6	7	94	
38	04/11/06	SOUTH BLDG. BASEMENT, GRID D / 2	1036	2	127.8	7.8	7	97	
39	04/11/06	SOUTH BLDG. BASEMENT, GRID D / 2	1031	1	121.6	7.5	7	92	
40	04/12/06	SOUTH BLDG. BASEMENT, GRID D / 2	1037	3	128.9	8.6	7	97	
41	04/12/06	SOUTH BLDG. BASEMENT, GRID D / 2	1038	1	127.7	8.2	7	96	
42	04/12/06	SOUTH BLDG. BASEMENT, GRID D / 4	1039	1	130.3	8.9	7	99	
43	04/12/06	SOUTH BLDG. BASEMENT, GRID E / 2	1038	4	130.1	9.6	7	98	
44	04/12/06	SOUTH BLDG. BASEMENT, GRID E / 3	1039	2	126.1	9.5	7	95	
45	04/12/06	SOUTH BLDG. BASEMENT, GRID D / 2	1039	4	128.5	8.9	7	97	
46	04/12/06	SOUTH BLDG. BASEMENT, GRID E / 3	1039	2	131.7	9.2	7	99	
47	04/12/06	SOUTH BLDG. BASEMENT, GRID C / 2	1039	2	122.2	8.8	7	92	

Table No. A-1, Field Density Test Results									
Test No.	Test Date	Test Location	Approximate Test Elevation (ft)	mate ow (ff)	Dry Density (pcf)	Moisture Confent (%)	Soil Type	Compaction (%)	Remarks (90% Req. unless noted)
48	04/12/06	SOUTH BLDG. BASEMENT, GRID F / 2	1041	2	125.0	9.7	7	94	2
49	04/14/06	SOUTH BLDG. BASEMENT, GRID E / 2	1045	N/A	121.5	8.9	7	93	
50	04/14/06	SOUTH BLDG. BASEMENT, GRID D / 2	1046	N/A	123.8	9.2	7	93	
51	04/14/06	SOUTH BLDG. BASEMENT, GRID C / 2	1045	N/A	121.5	7.4	7	92	
52	04/14/06	SOUTH BLDG. BASEMENT, GRID F / 2	1040	N/A	121.6	8.4	7	92	
53	04/14/06	NORTH BLDG. BASEMENT, GRID C / 7	1038	1	121.3	9.3	7	92	
54	04/14/06	NORTH BLDG. BASEMENT, GRID D / 7	1039	2	127.3	8.7	7	96	
55	04/18/06	NORTH BLDG. BASEMENT, GRID C / 8	1038	1	119.4	7.7	7	90	
56	04/18/06	NORTH BLDG. BASEMENT, GRID D / 7	1039	2	122.9	7.0	7	93	
57	05/15/06	4" SEWER NORTH BLDG. EAST SIDE, GRID C / 8	1037	2	117.5	7.2	3	90	
58	05/15/06	4" SEWER NORTH BLDG. EAST SIDE C / 8	1037	2	119.5	7.4	3	91	
59	05/17/06	NORTH BLDG., GRID F / 8	1023	2	120.3	9.7	2	91	
60	05/17/06	NORTH BLDG., GRID F / 8	1023	2	110.3	9.7	2	84	Failed, See RT #60A
60A	05/17/06	NORTH BLDG., GRID F / 8	1023	2	119.3	7.8	2	90	RT of #60
61	05/17/06	NORTH BLDG., GRID F / 7	1023	3	112.0	9.9	2	85	Failed, See RT #61A
61A	05/17/06	NORTH BLDG., GRID F / 7	1023	3	120.3	7.8	2	91	RT of #61
62	05/18/06	WATER VALVE WEST OF BLDG.	1041	2	114.4	9.4	2	87	FG, Failed, See RT #62A
62A	05/18/06	WATER VALVE WEST OF BLDG.	1041	2	120.0	7.1	2	91	FG, RT of #62
			R PIPE T	RENCHE	BACKFIL	L			
1	01/18/06	SE OF BLDG. 20, OFFSITE	1055	3	117.4	7.9	1	92	
2	01/18/06	SE OF BLDG. 20, OFFSITE	1055	4	119.4	8.5	1	93	
3	01/18/06	SE OF BLDG. 20, OFFSITE	1045	2	117.9	8.1	1	92	
4	01/18/06	SE OF BLDG. 20, OFFSITE	1045	4	118.7	9.4	1	93	
5	01/18/06	SE OF BLDG. 20, OFFSITE	1045	4	116.3	8.6	1	91	
6	01/18/06	SE OF BLDG. 20, OFFSITE	1045	4	116.0	8.0	1	91	

Notes: BTM: Bottom

RT: Retest

FG: Finish Grade

i: Repeated Test Numbers

APPENDIX B LABORATORY TESTING PROGRAM

APPENDIX B

LABORATORY TESTING PROGRAM

Laboratory tests were conducted on representative samples of the site soils for the purpose of evaluating physical properties and engineering characteristics. A brief description of the test procedures and results are presented below.

Laboratory Maximum Density and Optimum Moisture Tests

Laboratory maximum dry density and optimum moisture tests were performed on representative bulk samples of the site materials. These tests were performed in accordance with the ASTM Standard D1557 laboratory procedure. The results are presented in the following table.

Table No. B-1, Laboratory Maximum Dry Density and Optimum Moisture Content
Tests

	16212		
Soil Type	Soil Classification	Maximum Density (pcf)	Optimum Moisture (%)
1	Silty Sand (SM), fine-grained, brown	127.5	10.0
2	Silty Sand (SM), fine-grained, brown	125.5	10.0
3	Silty Sand (SM), fine-grained, trace clay, brown	132.0	9.5
4	Silty Sand (SM), fine-grained, brown	128.0	8.5
5	Silty Sand (SM), fine-grained, brown	121.5	9.5

Direct Shear Test

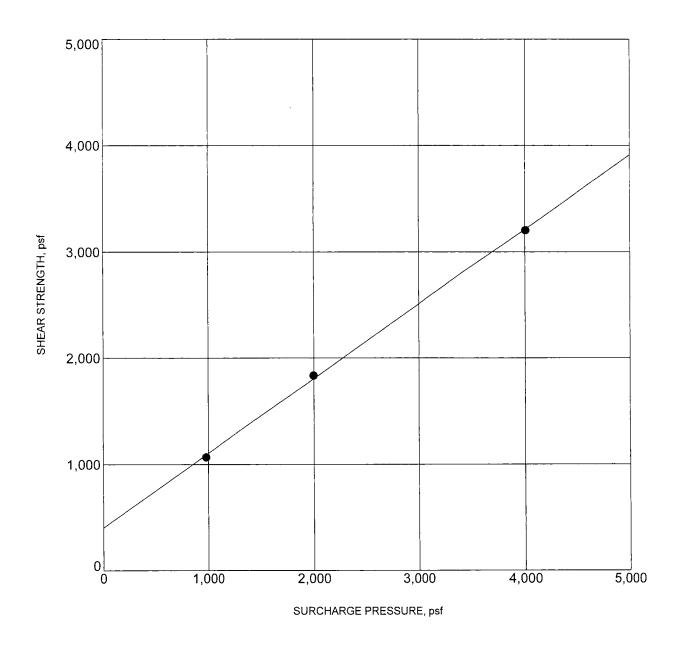
A direct shear test was performed on samples remolded to 95 percent of the laboratory maximum dry density. The test was performed on three samples at soaked moisture conditions. Samples contained in brass sampler rings were placed one at a time directly into the test apparatus and subjected to a range of normal loads appropriate for the anticipated conditions. Each sample was then sheared at a constant strain rate of 0.01 inch/minute. Shear deformation was recorded until a maximum of about 0.25-inch shear displacement was achieved. Peak strength was selected from the shear-stress deformation data and plotted to determine the shear strength parameters. Tests data, including sample density and moisture content are presented in the following table and presented in Drawing No. B-1, *Direct Shear Test Results*.

Table No. B-2, Direct Shear Test Results

Natural/Remolded	Soil Classification	Average Initial Moisture Content (%)	Average Initial Dry Density (pcf)	Effective Cohesion (psf)	Effective Friction Angle (degree)
Remolded to 95%	Silty Sand (SM)	10.1	119.5	400	35

Consolidation Test

One (1) consolidation test was performed on a sample remolded to 95 percent of laboratory maximum dry density at submerged conditions. The test was performed to evaluate the settlement characteristics of the foundation soils under load. Preparation for this test involved trimming the sample and placing the one-inch high brass ring into the test apparatus, which contained porous stones, both top and bottom, to accommodate drainage during testing. Normal axial loads were applied to one end of the sample through the porous stones, and the resulting deflections were recorded at various time periods. The load was increased after the sample reached a reasonable state of equilibrium. Normal loads were applied at a constant load-increment ratio, successive loads being generally twice the preceding load. The test results, including sample density and moisture content, are presented in Drawing No. B-2 Consolidation Test Results.



BORING NO. :	N/A	DEPTH (ft) :	N/A
DESCRIPTION :	SILTY SAND	(SM)	
COHESION (psf) :	400	FRICTION ANGLE (degrees)	35
MOISTURE CONTENT (%)	10.1	DRY DENSITY (pcf)	119.5

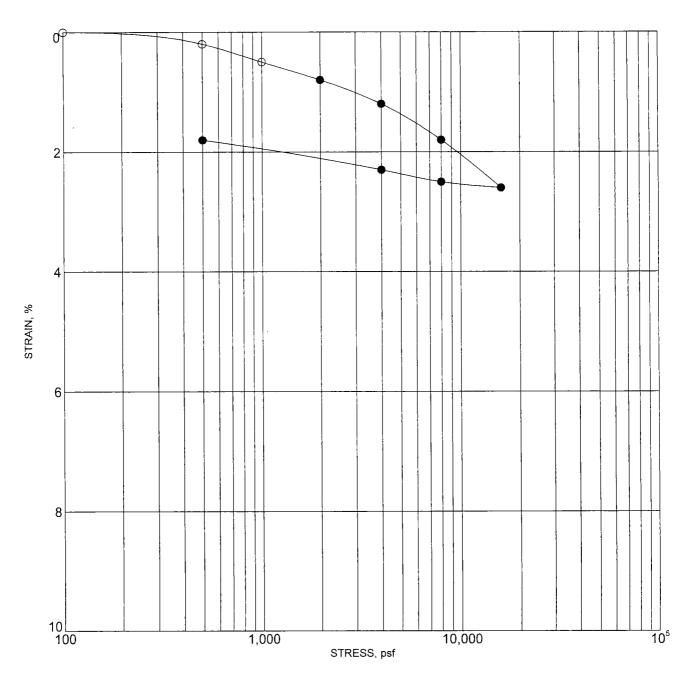
NOTE: Ultimate Strength, Sample Remolded to 95% Relative Compaction

DIRECT SHEAR TEST RESULTS



UCR NORTH BLDG. For: UCR Project No. **05-81-248-30**

Drawing No.



BORING NO. :	N/A	DEPTH (ft)	N/A
DESCRIPTION:	SILTY SAND (SM)		
MOISTURE CONTENT (%)	DRY DENSITY (pcf)	PERCENT SATURATION	VOID RATIO
INITIAL 9.4	119.7	66	0.378
FINAL 13.1	121.9	100	0.353

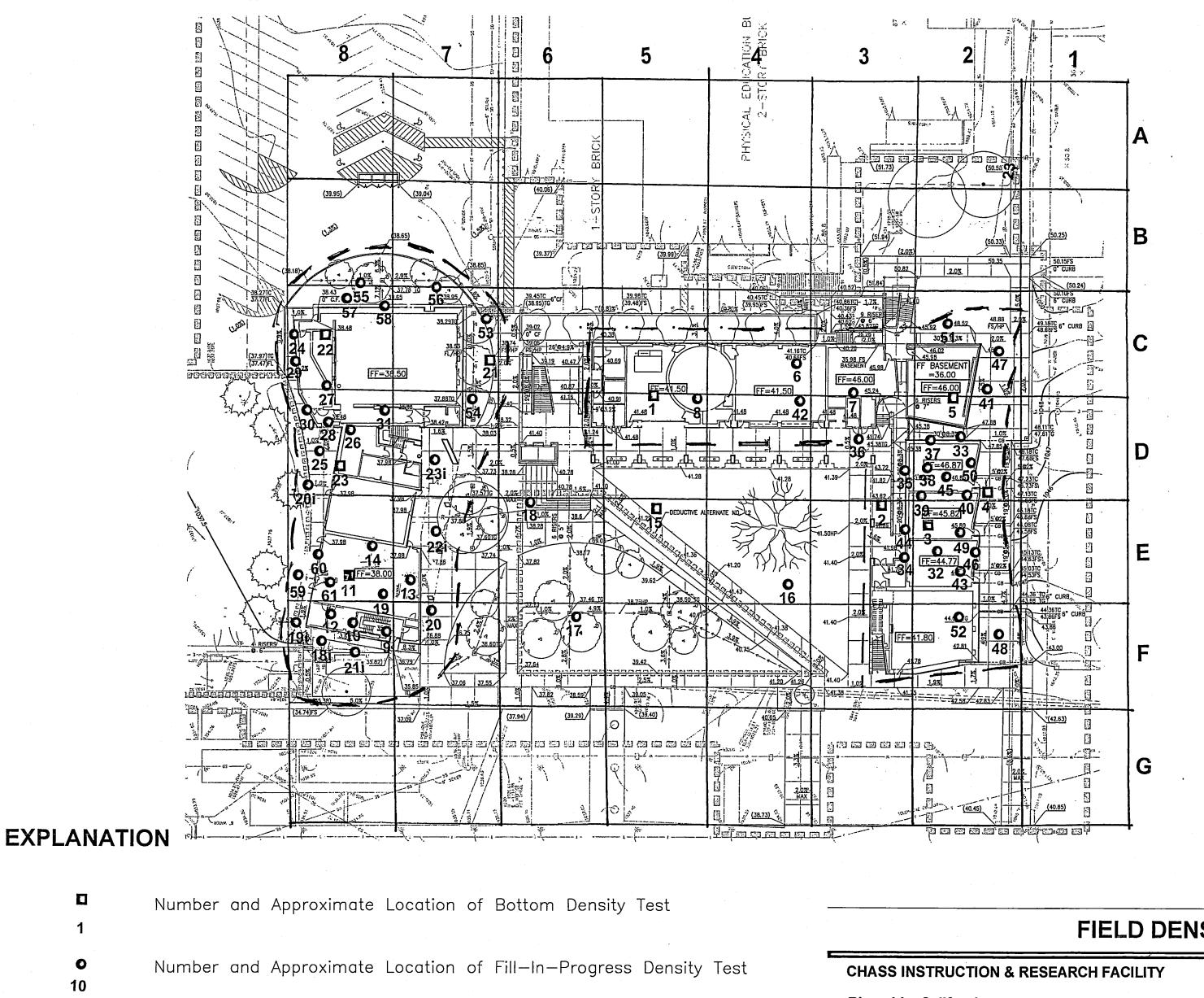
NOTE: Solid Circles Indicate Readings After Addition of Water, Sample Remolded to 95% of the Laboratory Maximum Dry Density

CONSOLIDATION TEST RESULTS



UCR NORTH BLDG. For: UCR Project No. **05-81-248-30**

Drawing No. 2



UNIVERSITY OF CALIFORNIA, **RIVERSIDE**

College of Humanities, Arts, & Social Sciences CHASS-Instruction & Research Facility UCR PROJ. 950377

OWNER/CLIENT OWNER/CLIENT
UNIVERSITY OF CALIFORNIA, RIVERSIDE
Office of Design & Construction.
University of California, Riverside
Bannockburn Office-10
Riverside, CA 92521
Tel. No.: 909-787-4201
Fax No.: 909-787-3890

DESIGN ARCHITECT PEI COBB FREED & PARTNERS 88 Pine Street New York, NY 10005 Tel. No.: (212)-751-3122 Fox No.: (212)-872-5443

EXECUTIVE ARCHITECT
LEO A DALY
550 South Hope Street, Suite 2700
Los Angeles, CA 90071
Tel. No.: (213)-629-0100
Fox No.: (213)-829-0070

CIVIL ENGINEERS



Date	Drawn By	
April 25, 2005	NΑ	
Scale	Checked By	
AS SHOWN	SG, JG	
Project No.		
103638		

GRADING AND DRAINAGE PLAN **DEDUCTIVE ALTERNATES**

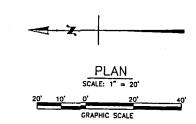
C3.0A

K p f f Consulting Engineer 6080 Center Dr. Suite 900 Los Arcelos, California 90045 CDD 665-1538 Fax CDD 685-9075

LEGEND:

CI CO CIVIL LIMITS OF WORK MM 6 8 0 DEDUCTIVE ALTERNATE LIMITS 41.20 PROPOSED SPOT GRADE

RJR



FIELD DENSITY TEST LOCATION MAP

Scale Project No. As Shown Riverside, California Prepared By 05-81-248-30 Drawing No. For: University of California Riverside KQ Checked By GT **Converse Consultants** Approved By

50

Approximate Limits of Over-Excavation

Number and Approximate Location of Finish Grade Density Test

0

10





ASD377
Reports

Date:

August 30, 2007

Report distribution package of Field Inspection Reports and/or Laboratory results on materials tested.

Job Name:

UCR Chass Building

Job Address:

3615-A Canyon Crest Drive

City:

Riverside, CA

Client Name:

SJ Amoroso Construction

You are receiving these reports at the request of our client. If you are not the correct recipient or wish to discontinue to receipt, please contact Denise DeGroff at 714/556-5867.



STRUCTURAL STEEL Testing & Inspection Report

3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

TESTING ENGINEERS		Testing & Ins	pection Report		71 1133	5 5007	71 1/330	-3000
INSPECTOR CODE	JOB NUMBER	-1425	DATE 8/13/07		.M T 1	W T	FS	S
JOB NAME U.C.R. CHASS	BUILDIN	G	BUILDING / OSHPD PERMIT #	/ DSA-APP #	× • 1 1	DSA-FI	LE#	
1634 W. 14th	ST Lo	NS BEACH CA	GENERAL CONTRACTOR AMOROSOC	on STRU	CTION C	JURISE	SA.	
LEO A. UALY	SAIL	FUI/ROOUFT	SUBCONTRACTOR (If Any)	FABRIC	ATION)	CITAD		
REQUIREMENTS: Limit of one jo specifically identified. Communica with project designers, building ar	b number, one p	ermit number per sheet. Id	dentify all work by type and	ו פסברובור ו	coction Nico			st be tions
		НО	URS					
REGULAR	1.5X	2X	TIME IN	LU	NCH		TIME OUT	
			6:00 AM		 -		3081	
Re-Inspection								
X Shop ☐ Fie	ld	🔀 Welding	Bolting		🗆 Sam	npling		
☐ Fireproofing	□ NDT (HRS							
AND PARTY OF THE STATE OF THE S	TICH OF WORK SHEETS AND S	ANSPECTED L'OBTEROIE MECCHES L'OTEROIES	RESE WAND IN OTTE WAY WO	rk reject		ROBLEM	S. ATTACE	
				AL AE	411			
OF SHOP FAR	ZI CATTON	D WELDING	INSPECTION AND ASSEMBLE	1 00	TO A TO	SIME	157	
INCLUDING Q	JAILTU	CANTRAL R	YMEANS OF	2000 C 1000 C 10	ERATI	JEDI	IAI T	<u> </u>
TRACING VIA	DIFUE	MARK NIUMR	ER TAGS AN	Λ	0066	$= \Lambda$	<u> </u>	<u>-, U</u> ,
TESTREPORT	SMATI	CHING, WFT.	JUNG DERFO	RMEN	Rin	AILL	1607	
PERAWSDI.I	DUALIFI	FD WELDE	es with CER	7760	PLIONS	ON) F	FUE	TIT IC
FABRICATION A	M WEL	OS DERFORM	NED DER ST	AMDE	MAA C	AMOR	NEV)
By DSA. STR	UCTURAL	DRAWINGS	DETAILS, AM	n nei	DA 1.6 () CH	1003 <u>20</u>	
DRAWING STAM	DED ADA	PROVED/REI	LEASED FORF	ABRIC	AT UW	INSP	PETU	<u>on</u>
REQUIRED), A	<u>ws 01.1</u>	WELDING CO	DE D.SA A	WN A	(1) (A-18	sc)c	13 (I K	
WELDS VISUALI	-4 ACCE	PTABLE ON DI	ECE MARKS	LISTE	O BEL	0W) F	15R 4	290
	J						, <u>, , , , , , , , , , , , , , , , , , </u>	<u></u> ,
- DIECEMARKETINDRO	GRESS FOR	REMAR#BRA	L: 19A, 19B 20	B				
- PIECE MARKET COMP	HERED FO	e state	: 20A					
		L WALLPATLSMIK			A			
* DIECT MAPPES # IN DR	perfess dis	R DIAN PENTENNY	IVE TO FIFMUNONT	LOPUS: #	Q #137.	4, #141	14,71	45 A
			*		((الكمية	TRAME	<u> </u>
WELDER	CERTIFICAT	ION / EXPIRATION DATE	WELDER		CERTIFICAT	ION / EXP	IRATION D	ATE
QUALIFIED WE	LOERS	WITH CERT	FICATIONS ON	FILE				
					<u> </u>			
Electrode Used: LINCOLA) OUTER	SHIELN 71M	ETIT(1\$9) WITH	(457/	Co_SHE	7 444	GAC	
Additional Page (Page #) CV			REPORT Contains	S	_	-	npliant Ite	ems
Certification	of Compliance		All inspections based on minimum		vork performed o	ver 4 hours -	9 hours mini	imum
declare under penalty of perjury that all of the ersonal knowledge the work during the perio stalled in compliance with the approved plans	e above staturents d covered by this rep specifications and	are true, and that of thy own	If inspector is called to a project an	nd no work is per	formed, a 2 hour	minimum cha	rge will be ap	mum. oplied.
nspector's Name TERRO		Akan)		1300	1 1.	1/11		
	64121221		Approved/Authorized b	y <i>Ülf</i>	(PROJECT SU	PERINTEND	ELLONENT)	nee
nspector's Signature	CWI						•••	U
nspector's License # <u>・ 尹 の</u> り	12X441 A	ws cui	Submitted by					



STRUCTURAL STEEL Testing & Inspection Report

3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

TESTING ENGINEERS		Testing & Ins	pection Report		
INSPECTOR CODE THOMT	JOB NUMBER	1425	DATE 8/1407	M X	WTFSS
JOB NAME ADDRESS ADDRESS	'		BUILDING / OSHPD PERMIT #	/ DSA-APP #	DSA-FILE #
L634 W. 1	4th ST Lo	N5 BEACH, CA	GENERAL CONTRACTOR AMOROSO C	ONSTRUCTION C	JURISDICTION D.SA
LED A. DALL	ENGINEER SALLA	FULL BOQUET	SUBCONTRACTOR (If Any) COWEL OF		ļ ·
REQUIREMENTS: Limit of specifically identified. Com with project designers, built	one job number, one pe munication (RFI, Sketch	ermit number per sheet. Ic , etc.) voiding previous no	lentify all work by type and	SPECIFIC location. Nor	n-compliant work must be
		НО	URS		-
REGULAR	1.5X	2X	TIME IN	LUNCH	TIME OUT
L 8			6:00 AM		2:30pm
☐ Re-Inspection		☐ Show-Up Only			
Shop			Bolting	🗆 Sa	mpling
☐ Fireproofing	DNDT (HRS				
		NSPECTED VOE PROG KETOHEGIFNEEDED.	RESCANDINOTE ANY AVIC	isk sejeched of Job	PROBLEMS ATTACH
	4		TUCACATI	N NE ALL	CDAS IS
OF SHOP F	ARRICATION	WEINING	INSPECTION AND ASSEMB	U ODERAT	311953
_					ATERIAL I.D.
TRACING V					
					ONLY CERTIFIED
			es with CEA		
FABRICATION	V AND WEL	OS PERFORM	NED PER ST	AMPED AND	Approviso
By DSA.	5 TRUCTURAL	DRAWINGS/	DETAILS, AN	O DETAILE	O S'HOP
DRAMING 81	AMBED ADG	ROVED/122	LEASED FOR	ABRICATION	CINSPECTION
REQUIRED), AWS 01.1	WELDING CO	DE D.SA	AND AJUCA	15C) CO1) FS.
MELOS VISC	vally acce	promise on p	IECK MARKS	LISTED BE	LOW PERWPS.
-DIECT MARI	HE IN ARDER	FES FIR STARR	#8 RAIL : #19	R 20B	
- DIECTIONALIK	•	ED FOR SAME			<u> </u>
- PIECE MARK	•		76 J#37A ,		14
			תוסמט שבול משונע		
·	•		<i>*</i>	<i></i>	FFRAMES)
WELDER	CERTIFICAT	ION / EXPIRATION DATE	WELDER	CERTIFIC	ATION / EXPIRATION DATE
QUALIFIED	WELDERS	WITH CERT	FICATIONS OF	UFILE.	
		·	•		
Electrode Used: L , N	COLN OUTER	SHIELD 71M	ETITIES WITH	+ 100% CO_SH	IFLAING GAS
☐ Additional Page (Page			DEPORT Contain		Non-Compliant Items
	ication of Compliance		All inspections based on minimu	m of 4 hours for work performed	d over 4 hours = 8 hours minimum.
I declare under penalty of perjury th personal knowledge the work during installed in compliance with the appro	at all of the above statements the period covered by tals he	are true, and that of my own			our minimum charge will be applied.
بسيب. 		11.		0000 M	11/
Inspector's Name	FREDLY THO	TPSON	Approved/Authorized	by Office (PROJECT	SUPERINTENDENT)
Inspector's Signature	July Williams	<i>ff</i>			
Inspector's License # - 7	-0412128 WAY	MS CW I	Submitted by		

ACCOUNTING



3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

TESTING ENGINEER	S	iesting & ins	spection Report		
INSPECTOR CODE THOM T	JOB NUMBER	1425	DATE 8/15/0	7 M T)	T F S S
LOD MAME	ASS BUILDIN		BUILDING / OSHPD PERMIT # /	DSA-APP#	DSA-FILE #
ADDRESS 1634 W.	14th ST LO	NEREACH CA	GENERAL CONTRACTOR AMOROSO CO	WISTRUCTION C	JURISDICTION D.S.A.
ARCHITECT LED A. DAL	1 ENGINEER	FUL BOQUET	I SHROOMTRACTOR (If Appl)		·] .
REQUIREMENTS: Limit	of one job number, one pe	ermit number per sheet. I	dentify all work by type and	SPECIFIC location, Non-	compliant work must be
with project designers, b	uilding and permit granting	, etc.) voiding previous na authority officials.	on-compliant items must be	listed, record conversation.	ons and communications
		НО	URS		
REGULAR	1.5X	2X	TIME IN	LUNCH	TIME OUT
<u>8</u>			6:00 AM		2:30Am
Re-Inspection		☐ Show-Up Only _			
X Shop	☐ Field	X Welding		🗆 Sam	npling
☐ Fireproofing					
ialdeolair agaig	DE LOCATION OF WORK	INSPECTED LIGERAGE	(e)wo wan shedingunavasaja	A SINGUEGRED OF TOERS	PROBLEMS ATRACH
CONT.	NCANDA SHERESANDIS	Keroheadr Nedder) /			
I) PROVIDE	O CONTINO	US VISUAL	INSPECTIO	N OF ALL	STAGES
OF 2406	HABRICATION	WELDING	AND ASSEMBLE	4 OPERATI	ONS
IN CLUUING	1 WALLING	CONIKOL B	4 MEANS OF	STEEL MY	MERIAL II. D.
TECTOE	MA DIECES	MAKK NUMB	ER TAGS AN	CERTIFIE	-U MILL
DER ALLS	LAMA S	THING, WEL	AC WEST CES	EMED BY	NLY CERTIFIEN
FABRICATIO	N AAM WELL	OS DECEMBE	ned per st	ALFICH IONS	AAAAA KAA
BY DSA.	STRUCTURAL	DRAWINES /	DETAILS, AM	A DEDALE!) CHAD
DRAWING S	TAMPED ADE	ROVED/RE	LEASED FORF	ARRICATING	INSPECTION
REQUIRED), AWS DILL	WELDINGY	006 DSA A	MA ACD (A)	SC) CADES
WELDS VIS	VALLY ACCE	PTABLE ON P	IECE MARKS	LISTED BEL	ON DER WPS
- PIECE MARI	N completion	FOR STAR # 81	PAIL: #198,20	71 <u>5</u>	
- prize MAFIL	S IN PROGRESS FO	OR STAIRBY RA	16 : 374, 37B 140A	, 41A	
- PIZZE MARK	WAIPINTED TOR	SAMK	4 04 5 T	A (#.)	23 4 14 4 4 4 14 1600
- pikel prosen	in progincss pr	ER PIAN REVISIO.	~ VELLETEDWN	DIT CADITION	RYA, # 141A, # 145A
					1400 1 14004157
WELDER		ON / EXPIRATION DATE	WELDER	CERTIFICAT	TION / EXPIRATION DATE
QUALIFIED	WELDERS	WITH CERT	FICATIONS UN	FILE.	
Electrode Used: L 1 N	ICOLN OUTER	SHIELD 71M	ETIT(1=9) WITH	100% Co. SHE	ZNING GAS
☐ Additional Page (Pag			BEPORT Contains	3	Non-Compliant Items
Cen	ification of Compliance		Does No	ot Contain	Tron Compilant Roma
declare under penalty of perjury personal knowledge the work during installed in compliance with the app	that all of the above statements	are true, and that of my own	All inspections based on minimum If inspector is called to a project ar	of 4 hours for work performed of d no work is performed, a 2 hour	over 4 hours = 8 hours minimum. minimum charge will be applied.
nspector's Name	- C. House	2520	Approved/Authorized b	, OD. IV	1/2. 0.
nspector's Signature _	#RE(E4_1HOM 4121221	PSON >	Approved/AdditionZed D	(PROJECT ST	Hemany PERINTENDENT)
nspector's License#_	# 6418 224 4	fos cus	Submitted by		

ACCOUNTING



3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

TESTING ENGINEERS		Testing & Ins	pection Repo	ort		550 5007	71 1755	3-3000
INSPECTOR CODE THOM T	JOB NUMBER	-1425	DATE 9/16	107	M T	WY	FS	SS
JOB NAME ADDRESS ADDRESS	S BUILDIN	G	BUILDING / OSHPD PE	ERMIT # / DSA-APP #	. 		FILE #	-
1634 W. 14	th ST LO	NEBEACH, CA	GENERAL CONTRACT	OR CONSTR	UCTION	(A. JURIS	SDICTION SA	
LEO A. DALY	SAL	FUI/RODUET	SUBCONTRACTOR (If	Any) FABRIC	CATION	Cital	<u> </u>	
REQUIREMENTS: Limit of on specifically identified. Commu with project designers, building	ne job number, one per inication (RFI Sketch	ermit number per sheet. Ic	lantify all work by to	no and SDECIEL	Classian N		ad according	ist be ations
		HO	URS	. 7	<u> </u>		-	
REGULAR	1.5X	2X	TIME IN		LUNCH		TIME OUT	
<u> </u>			6:00 AM		- -		30PM	
Re-Inspection								
X Shop □	Field	🔀 Welding	🗆 Bolt	ing	🗆 s	ampling _	<u></u>	
☐ Fireproofing								
ATEROIRTE TIROSETA AMBINIMINA	Oloafion of Work Konshiefstands	INSPECTED: JOB PROG METCHES IN NEEDEDA	HESE AND NOTEIN	Nework rele	ATED OF 10	B PROBLE)	AS: ATTIAC	A.
			INSDEA	TION OF	= A11	CDA	S E C	
OF SHOP FA	BRI CATZON	US VISUAL	AND ASSE	MBLY OF	PERAT	ZNOT	462	
INCLUUING	WAUTY	CONTROL B	4 MEANS	OF ST	EL M	MIFR	IAL JAL	=. D.
TRACING VIA	DIECELY	MARK NUMBI	er tags	AND CE	ERTIFI	FO A	AILL	
TESTRE POR	CIS MATO	CHING, WEL	DING DE	REDRINE	10 BA	onra	CER	<u> TIFIED</u>
FABRICATION	AAM WELL	ed welder	OEU DEB	CERTIMO CERANO	JATION EA ALM	<u> </u>	TILE	•
BY DSA ST	PULTURAL	DEAMINES)	DETAILS	ANN DE	DA LE	V CH	4)	<u></u>
DRAWING STA	mped ADA	12012D/1221	JASED F	BRFABRI	CATIO	ULINSI	OFETI	ON
REQUIRED).	AWSDILL	WELDING GO	DE 151	A AND A	$F(y) \setminus Y$	-150)0	CANES	?
WELDS VISUA	lly ACCE	PTABLE ON DI	ECR MAR	us List	ED BE	LOW	PERC	<u> </u>
-0516	MARIET IN DRI	stress for stan	Rtal Day	<u> </u>			•	
- DIEIE	marks con	PIÈTED FOR SAN		374 371	?			
-01816		PINTED PER PLAN		DONE TO	·	ONOITH	ا نما	
	OUF FRAMES	#1414.145A	·					
- PIECE	MARLE IN PRI	GRESS DUETUSAN	1E#137A"					
WELDER	CERTIFICATI	ON / EXPIRATION DATE	WELC	DER	CERTIFIC	CATION / EX	PIRATION D	DATE
QUALIFIED W	ELORAS	WITH CERT	FICATIONS	ONFIL	a .	,		
		·						
Electrode Used: LINCO	LN OUTER	SHIELD 71M	E717(1#9) V	VITH 100%	Co-SH	1EUNING	645	
☐ Additional Page (Page #)			REPORT DC	ontains oes Not Contai		,	mpliant I	tems
I declare under penalty of perjury that all	pariod covered by this me	are true, and that of my own	All inspections based on If inspector is called to a p	minimum of 4 hours foroject and no work is	or work performe	ed over 4 hours our minimum ch	= 8 hours min	nimum. applied.
installed in compliance with the approved p	olans, specimeations and all	applicable codes		M	01	11.11		
Inspector's Name IERA	TERRELLE E THOMPS	<i>₩</i> 620 ⟨ 1002	Approved/Author	ized by <u></u>	Luck PRO IECT	SUPERINTEN	CACCE	ine V
Inspector's Signature	MINEST DESIGNATION OF THE PARTY			/	, ILUOSEOI	SOFERINTEN	IDENI)	
Inspector's License #O	11518 MIN	VICIVI	Submitted by					

ACCOUNTING



TESTING ENGINEERS		lesting & Ins	pection Re	eport				
INSPECTOR CODE THOMT	JOB NUMBER	1425	DATE 8/1	7/07	M	TW	T V	S S
JOB NAME C.R. CHAS ADDRESS			BUILDING / ØSHF	PD PERMIT # / D	SA-APP#		DSA-FILE #	
1634 W. 14	th ST Lo	ONT BEACH CA	GENERAL CONTR	RACTOR CO	NSTRUCT	TONCO	JURISDICTIO D.S.A	N ·
LED A. DALY	LENGINEER	FUL/BOQUET	SUBCONTRACTO	R (If Any)				
REQUIREMENTS: Limit of or specifically identified. Commu	e job number, one p	ermit number per sheet. I	dentify all work f	ov type and S	SPECIFIC Inc	eation Non-c	ompliant work	must be
with project designers, building	g and permit grantin	g authority officials.	on-compliant ite	iis iiiust be i	istea, recoru	conversation	is and commu	nications
		НО	URS					
REGULAR	1.5X	2X	TIME		LUNG	CH	TIME	
0			6:00 A				2:30	PM
☐ Re-Inspection		_ ☐ Show-Up Only _			_	nses		
X Shop □				3olting		☐ Samı	oling	
☐ Fireproofing	DNDT (HRS	5)	•					
AND STATES	OCATRON OF WORK	UNSPECTED JOBARROL	RESEAND NOT	E ANY WOR	к выволы	HOR JOB PI	OBJECTIVE AT	TACH
		KETOHES JENNEEDEDAY						eng -
T) PROVIDED	CONTINO	US VISUAL	INSPE	ECT 101	J OF	ALL S	STAGE	2
OF SHOP FA	MSICI CAFT ZON	WELDING	ANN AS	FWRT	d obs	RATIO	<u> </u>	
INCLUDING	WALL TY	CONTROL	y MEAN	17 OF	STEE	LMA	TERIAL	<u> </u>
TRACING VIA								
DER ALLEDON	CIS MATIC	CHING, WEI	JOING T	EKIO!	CM/P/D	Pa o	acy Co	<u> RAIFIE</u>
PERAWSDI.	ALM LEY	AS DESCRIE	57 MIL	t CER	11704	1 10/12	0N FIL	<u>e.</u>
FABRICATION BY DSA. ST	TAND WISC	DON WILL	NED PE	K 81H	WART	AND 4	Appleon	20
DOXUME CTA	maca As	DRAWINGS/	DETHIL	3 ANK	10011	TILLED	S ELOS	- 1 1 A 7
DRAWING STA	AWS DI	145 A NE	WASE/J	FORF	TOIC CO	H CONC	NSPEC	<u> 1010</u>
REQUIRED),	11.11 A 650	COARIC AND	OPE D.	S_{n} , A_{n}	NO AD	DCAS	C) CO()	<u> </u>
WELDS VISUA	TLY ACED	to laught on h	(ECK MY	HRKS (13161) BELL	ow her	cm62
- DIELE MARL	L complete	O FORSTAR#4	RAIL 17#4	lA		<u> </u>	<u> </u>	
* ALLCOMPLETE					o Then G	EACL TO S	THUP FOR	FML
PIECE PICASS	embly and h	PEN OUT.				/ .	· · · · · · · · · · · · · · · · · · ·	11
- PIECE MARKS	compléted per	2 PLANFEUSION B	DEBFIEL	O COMDIT	1.187#13	74,#14	14 +1457	4 4
** PIECE MARKS 1"	offices due	to flav Religion C	3 7 13 7A RE	tueva, i	BUTNUTE	1 FUR PIE	ELES# 141	A, #1913
WELDER	CERTIFICAT	ION / EXPIRATION DATE	V	VELDER		CERTIFICATI	ON / EXPIRATION	ON DATE
QUALIFIED W	ELDERS	WITH CERT	FICATIA	140 24	FILE			
		10 (1)(1) CE (1)	1, 0,1	<u> </u>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Electrode Used: LINCO	IN OUTER	SHEIN 71 AA	EZITLEO	i i i i i i i i i i i i i i i i i i i	12-7/6	^ CII.=		
		STIELD I M	· 2	Contains	100 %	_	LAING GA	•
Additional Page (Page #)			REPORT	Does Not	Contain	1	Von-Complia	int Items
	tion of Compliance		All inspections base	ed on minimum o	of 4 hours for wo	rk performed ov	er 4 hours = 8 hou	ırs minimum.
declare under penalty of perjury that al ersonal knowledge the work during the estalled in compliance with the approved	period covered the this replans specifications and a	port has been performed and Lapplicable codes	If inspector is called	I to a project and	no work is perfo.	rmed, a 2 hour n	ninimum charge wi	il be applied.
nspector's Name TERR			A: 1/4	atat	MI	1 11/		
	04121221		Approved/Au	thorized by	M	(PROJECT SUF	PERINTENDENT)	ung
nspector's Signature	The state of the s			,	y			
nspector's License #	YILKERA	ns civit	Submitted by	·				



3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

TESTING ENGINEERS		resung & ins	pecuon keport		
INSPECTOR CODE THOMT	JOB NUMBER 05	1425	DATE 8/20/0-	M T V	V T F S S
JOB NAME U.C.R. CHAS ADDRESS			BUILDING / OSHPD PERMIT #	DSA-APP#	DSA-FILE #
1634 W. 12	Ith ST Lo	NERFACH CA	GENERAL CONTRACTOR AMOROSO CO	ONSTRUCTION CO	JURISDICTION D.S.A.
LED A. DALY	LENGINEER	FUL BOOUET	SUBCONTRACTOR (If Any)	FABRICATION S	
REQUIREMENTS: Limit of a specifically identified. Comm	ne job number, one pe	rmit number per sheet. Id	dentify all work by type and	SPECIFIC location, Non-	compliant work must be
with project designers, buildi	ng and permit granting	authority officials.	on-compliant terms must be	isted, record conversatio	ons and communications
		НО	URS		
REGULAR	1.5X	2X	TIME IN	LUNCH	TIME OUT
<u> </u>			6:00 AM		2:30PM
☐ Re-Inspection		☐ Show-Up Only		□ Expenses	· · · · · · · · · · · · · · · · · · ·
Shop] Field	_ 💢 Welding	Bolting		pling
☐ Fireproofing			,		
IRIERORIF INGLODE. CONTRINA	LOCATION OF WORK	NERECTED NOBTEROE	Hesistandanote, any wo	RKREJECHEBOR JOBIR	ROBLEMS ATTACH
	- NOTE OF THE PARTY OF THE PART	THE RESIDENCE OF THE PARTY OF T	en de contratamente de senso directo en contratamente de compressa de constitución de constitución de constitución de contratamente de constitución de contratamente de contrata		THE PARTY OF THE P
I) PROVIDED	CONTINO	JS VISUAL	INSPECTIO	NOT ALL	STAGES
OF SHOP FI	MSICI CATION	WELDING	AND ASSEMBLE	4 OPERATI	ONS TO D
TRACING VI	A DIECIE JE	NARK NUMB	GR TAGS ON	A CERTIFIE	TEICHE I. D.
					NLY CERTIFIED
PERAWSDI.					
FABRICATION	AND WELL	IS DERFORM	NED PER ST	AMPED AND	Approved
By DSA. S					
DRAWING ST	AMPRIL MAPP	ROVED/ 122	LEASED FORF	ABRICATION(INSPECTION
REQUIRED)	AWS DIVI	WELDING C	DE D.SA, A	WD AJD (AIS	SC) (61) FS.
WELDS VISU	FLLY ACLE	printing on h	IECK MARKS	LISIRD BEL	on bekmin
- Roof	FRAME Com	DIETED DER	1 Due maile	CONTRACTOR ALS	IÉCEMARU #137A
- Roof		ROBRYSS PIER L		41 AND #145 A	ILCEPTU THIS IT
- POUF	FRAME INDI		3) PIECE MARL	()	A
- PIEC			STATE # 1 AND #"		<u> </u>
#224	+ #22B, #23A	# 53B, #23C, #	24 A, # 24B, #25	A	
WELDER	CERTIFICATI	ON / EXPIRATION DATE	WELDER	CERTIFICAT	ION / EXPIRATION DATE
QUALIFIED V	UELDERS	WITH CERT	FICATIONS UN	J FILE.	
			7 10.		
Electrode Used: LINC	ALN OUTER	CHEIN 71 AA	FRITISO WITH	- 1357/ (0 5146	700 - 616
		SHIELD IIM	_ ☐ Contain	s	·
☐ Additional Page (Page #			REPORT Does N	ot Contain	Non-Compliant Items
declare under penalty of perjury that	ation of Compliance	are true, and that of my own	All inspections based on minimur If inspector is called to a project a	n of 4 hours for work performed o	ver 4 hours = 8 hours minimum.
declare under penalty of perjury that personal knowledge the work during the installed in compliance with the approve	e period covered by this rep d plans, specifically and all	ort has been performed and applicable codes	o dand to a project a	1 A.	
nspector's Name TER		DEVIN	Approved/Authorized I	Valle IVI	len o
nspector's Signature	TERRELLE E. THUMPS	N //		(PROJECT SL	JPERINTENDENT)
nspector's License # # 4		wscut	Submitted by	/	۵

ACCOUNTING



3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

		_	-		
INSPECTOR CODE THOMT	JOB NUMBER	-1425	DATE 8/21/07	M	WTFSS
JOB NAME U.C.R. CHASS ADDRESS	BUILDIN	G	BUILDING / OSHPD PERMIT #	/ DSA-APP #	DSA-FILE #
ADDRESS 1634 W. 14+	n ST Lo	NEBEACH CA	GENERAL CONTRACTOR AMOROSO C	MSTRUCTION	JURISDICTION O. D.SA:
LED A. DALY	ENGINEER SAIL	- /-	SUBCONTRACTOR (If Any) COWELCO 1		
REQUIREMENTS: Limit of one	iob number, one p	ermit number per sheet. I	dentify all work by type and	I SPECIFIC location. N	on-compliant work must be
specifically identified. Communi with project designers, building	and permit granting	n, etc.) voiding previous n g authority officials.	on-compliant items must be	e listed, record convers	ations and communications
	-	НО	ours		
REGULAR	1.5X	2X	TIME IN	LUNCH	TIME OUT
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		-	6:00 AM		2:30 PM
☐ Re-Inspection		☐ Show-Up Only _		🗆 Expenses	
☒ Shop □ F	ield	X Welding	Bolting	🗆 S	ampling
☐ Fireproofing	_ 🗆 NDT (HRS	i)			. •
THEPORTS INCIDENCE	CATION OF WORK	INSPECTED TOE PROG	HEESS AND INCHEANY WA	JEKSELJE (ELETTORAJO	B. PEINELEMS ANTAGE
		(Ketiohesta Meeded);			
I) PROVIDED	CONTINO	US VISUAL	INSPECTIO	N OF ALL	STAGES
OF SHOP FA	BRI CATZON	WELDING	AND ASSEMB	LY OPERAT	TONS
INCLUDING (\			• -	INTERIAL I. D.
TRACING VIA			ER TAGS AN		
					only CERTIFIE
PERAWSDI.			RS WITH CEA		
FABRICATION CT	AND WELL	l l	/		
DRAWING STAY		. , , ,	DETAILS, AN		N(INSPECTION
			OPE D.SA		
WELDS VISUA					
		•	DUETO FIELD (
- ROOF FRA	mies IND	RIGRESS DER	3 OUE TO SAM	E! PIECE MARK	# 141 A
- PIEUE MAA	KIN PRO GI	ress FOR STAIR	# 1 AND #7 PAMY	ERMUS:# 22	A 22B 724B
#24 A, #7	LSA				
- PIEUE MARK	# WMPIETE	DE READY TO GA	CUANTY & FOR SAME	AS ABOUR!#23,	1 + 53 B + 53 C
WELDER	CERTIFICAT	TION / EXPIRATION DATE	WELDER	CERTIFI	CATION / EXPIRATION DATE
QUALIFIED W	ELDERS	WITH CERT	FICATIONS O	N FILE.	
Electrode Used: LINCO	IN OUTER	SHEIN 71 AA	EZITIES MID	L (25"/ CO CI	LUZ ALL FAS
		SHIELD IIM	☐ Contair		·
☐ Additional Page (Page #) (REPORT Does N	lot Contain	Non-Compliant Items
I declare under penalty of periusy that all	on of Compliance of the above statements	are true and that of my own			ned over 4 hours = 8 hours minimum.
personal knowledge the work during the personal in compliance with the approved p	period covered by his it	por has been performed and all applicable codes	in inspector is called to a project a	and no work is performed, a 2	hour minimum charge will be applied.
Inspector's Name	eiki Tom	and sink	Approved/Authorized	(Ul) [1]	1/2 11
-	TERREUE E 11 041212	OMMISUN 7	Approved/Authorized	(PROJEC	T SUPERINTENDENT)
Inspector's Signature	Man Man			,	U
Inspector's License #&	412120	one	Submitted by		

ACCOUNTING



TESTING ENGINEERS		rooming & mor	pootion noport						
INSPECTOR CODE THOMT	JOB NUMBER	-1425	DATE 8/22	07	MT	<u> </u>	T F	S	S
JOB NAME U.C.R. CHA ADDRESS	SS BUILDIN	G	BUILDING / OSHPD PERMIT #	/ DSA-APP #			DSA-FILE #		
ADDRESS 1634 W. 19	4th ST LO	N5 BEACH CA	GENERAL CONTRACTOR AMOROSO C	MISTRUC	TLON	(0.	JURISDICTION D.S.A		
ARCHITECT LED A. DALY	ENGINEER	- 1-	SUBCONTRACTOR (If Any)					•	
REQUIREMENTS: Limit of	one job number, one pe	ermit number per sheet. Id	entify all work by type and	SPECIFIC I	cation. N	lon-com	npliant wor	k must	be
specifically identified. Comr with project designers, build	nunication (RFI, Sketch ling and permit granting	ர, etc.) voiding previous no g authority officials.	n-compliant items must be	e listed, recor	d convers	sations	and comm	unicatio	ons
		HOL	IRS		· · ·				
REGULAR	1.5X	2X	TIME IN	LUI	NCH		TIME	OUT	\neg
			6:00 AM	-	-		2.3	OP.	M
☐ Re-Inspection		☐ Show-Up Only			enses				
∑ Shop	☐ Field		□ Ro(ting			Campli	na		==
☐ Fireproofing		•	Dolling	•	_ 🗀 🤄	Samplir	···y		
TELEKOTETE (IKISKE). KONTINE	- EOGATION OF WORK ATION SHEETS AND S	INSPECTEDA (GB: PROGI KETCHES IF (NEEDED) :=	ESS AND NOTE ANY WO	DRK-REJECTE	D 0)F(1)S	IB PRO	BLEMS A	FIACH	
		US VISUAL	THENCATION	WI VE	A-1 1	~		· C	
OF SHOP F	ARRICATION	D WELDING	AAM ACCEAR	19 01			MAC	7	
INCLUDING		CONTROL BY			-		<u>US</u> ERIAI	T	<u></u>
		MARK NUMBI							<u>. U</u> .
		CHING. WEL							
DER AWS DI			•	_		_	<u></u>		
		FO WELDEN							
	_	OS DERFORM	_	•		•		BU	 .
		DRAWINGS/						712	147
DRAWING ST		PROVED/PEI							
REQUIRED)	, AWS DIN	WELDING CO	DE DOM	AND A	DU	413C	.) COI	75	<u>.0 c</u>
WELDS VISC		,	- 77						
- Roof		progress per							
		RUGRESS PER		•				,.	
/ 1	i	TED FOR STAIR		& RAY LSIA					
1 ,	•	RESS FOR STAIR #	, ,		40 ?(-		,	<u>, #26/</u>	+ # 21
ų .	ı	S FUR STAR #18	***	मय्पाइ		<u> </u>	<u>лв</u>		
* complénes	Paris Nosest	trapped to garvaning	ER						
WELDER	CERTIFICAT	ION / EXPIRATION DATE	WELDER		CERTIF	ICATION	N / EXPIRAT	TION DA	(TE
QUALIFIED	WELDERS	WITH CERT	FICATIONS U	NFILE					
			11 10.		<u> </u>		2		
Electrode Used: 1	(1) 1 (1)		EZITATO MINI		· · ·				
Electrode Used: LING		SITIECU / M	C/11(#9) WITH		C022	HEU	JIMO 9	<u> </u>	
☐ Additional Page (Page	#) CM		REDUBL	lot Contain		No	on-Compl	iant Ite	∍ms
	cation of Compliance		All inspections based on minimu	m of 4 hours for	vork nerforr	med over	4 hours - 8 h	ours mini	mum
declare under penalty of perjury that personal knowledge the work during installed in compliance with the approv	t all of the above statements the period covered by this is	are true, and that of my own	If inspector is called to a project a						
nstalled in compliance with the approx	ed plans, specifications and of 1	applicable codes			1/	111.	P		
Inspector's Name <u>TE</u>			Approved/Authorized	by Cle	! Soal	<u>////</u>	lens	nn	m/
Inspector's Signature 🗓	TERRELLE CTROMP	-//			(PROJEC	CT SUPE	RINTENDENT	7)	T
Inspector's License #	3412 CM	insens	Submitted by	/					
hispector's Electise #			,	,					
	`	ACCOUN	HING						



TESTING ENGINEER	5	lesting & ins	pection Report		
INSPECTOR CODE THOMT	JOB NUMBER	ำเนวร	DATE 8/23/	37 M T	W F S S
JOB NAME	IASS BUILDIN		BUILDING / OSHPD PERMIT #	/ DSA-APP #	DSA-FILE #
ADDRESS		N5 BEACH, CA	GENERAL CONTRACTOR	ON STRUCTION C	JURISDICTION D.SA.
LEO A. DA	FNGINEER	FUL BOOVET	SUBCONTRACTOR (If Any)	FABRICATION	
REQUIREMENTS: Limit	of one job number, one p	permit number per sheet. In h, etc.) voiding previous no	dentify all work by type and	d SPECIFIC location, No	n-compliant work must be
with project designers, b	uilding and permit grantin	g authority officials.			nons and communications
250000	1		URS		
REGULAR	1.5X	2X	TIME IN	LUNCH	Z'30PM
O Do Inspection	<u> </u>		6:00 AM		2.30719
	· · · · · · · · · · · · · · · · · · ·	_			
		X Welding	Bolting _		mpling
☐ Fireproofing					A THE STATE OF THE
RIEIPORAR ANION Solvi	IDE LOCATION OF WORK NOAHON SHEETS AND	(INSPECTED, JOB PROG SKEJOHESTE NEEDED)	RESS AND NOTE ANY W	ORK REJECTED OF JOE	PROBLEMS AGACH
CHARLES CONTRACTOR		OUS VISUAL	INSDECT	ON OF ALL	CTAGES
		WELDING			
					ATERIAL I.D.
		MARK NUMB			
					ONLY CERTIFIE
PERAWSD		FO WELDE			
By DSA.	CTOURTH	OS DERFORM	NED PER SI	AMPED AND	Approvad
		DRAWINGS/			I(INSPECTION
		WELDING 4			
WELDS VIS	VALLY ACCE	DTABLE ON D	IECE MARKS	LISTED BE	LOW DER WPS.
		ROOF FRAMES			
- p11	ELE MARKS FOR	ROOF FRAMES	IN PROGRESS PE	2 1 # 141,	4
		STURA 1 \$#7 R			
					#27A, #26A, #27B
	•	ETES FOR SAME	/	+ 26B,	
4K CON	PIETED PIECES	PERDY FOR FOLLY	3~17.NG		
WELDER	CERTIFICA	TION / EXPIRATION DATE	WELDER	CERTIFIC	ATION / EXPIRATION DATE
QVALIFIED	WELDERS	WITH CERT	FICATIONS U	NFILE.	
Electrode Used: L 1	JCOLN OUTER	RSHIELD 71M	ETIT(1 &9) WITH	+ 100% Co. SH	IPLAING GAS
☐ Additional Page (Pa			PEDODT Contai		Non-Compliant Items
Cei	tification of Compliance	e	All inspections based on minima	um of 4 hours for work performe	d over 4 hours = 8 hours minimum.
declare under penalty of perjury personal knowledge the work dur installed in compliance with the ap	ing the period covered his history	has been neglermed and			our minimum charge will be applied.
Inspector's Name		an approprie codes		. all 1	
	TERRELLE EL TIO	harmy year	Approved/Authorized	by Cycle (PROJECT	SUPERINTENDENT)
Inspector's Signature _	CW	1		/	0
nspector's License # _	1041210 TV	XWS WIT	Submitted by		



3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

TESTING ENGINEERS		resting & ins	spection Report		
INSPECTOR CODE THOMT	JOB	NUMBER 05-1425	DATE 8/2-4/	o7 M T	W T F S S
JOB NAME C.R. CH.			BUILDING / OSHPD PERMIT #	DSA-APP#	DSA-FILE #
LADDRESS		LONG BEACH, CA	GENERAL CONTRACTOR	ONSTRUCTION C	JURISDICTION D. SA
ARCHITECT A. DAL	IENG	ALFUL BOQUET	I SUBCONTRACTOR (It Anv)		
REQUIREMENTS: Limit specifically identified. Co	of one job number mmunication (RFI	r, one permit number per sheet. I , Sketch, etc.) voiding previous n granting authority officials.	dentify all work by type and	SPECIFIC location, Non	-compliant work must be
		НО	URS		
REGULAR	1.5X	2X	TIME IN	LUNCH	TIME OUT
8			6:00 AM		2:30 pm
Re-Inspection		Show-Up Only _			
X Shop	☐ Field	X Welding	☐ Bolting		mpling
☐ Fireproofing	DND1	Γ (HRS)	•		
121210) 452(0)2121-1	DE LOCATION OF	Work inspected job brok	RESS AND NOTE ANY WO	IRKAREJECTED OR JOB	PROBLEMS ATTAGES
SOME!	NDATION SHEETS	VAND SKEPGHES IF NEEDED I			
I) PROVIDE	O CONT	INDUS VISUAL	INSPECTION	IN OF ALL	STAGES
0K 240h	MARICI CA	TLON WELDING TY CONTROL B	AND ASSEMBLE	Ly OPERAT	ATERIAL TO
		EMARK NUMB			
		LATCHING, WET			
		LIFTO WELDE			
		us los perfor			
BY DSA.	STRUCTU	RAC DRAWINGS/	DETAILS, AN	O DETAILE	P 5'HOP
		APPROVED/PE			
REQUIRED), AWS	DI: I WELDING C	OPE, D.S.A.	AND ASD (A	SC) CODES.
MELOS VIS	UALLY A	CCEPTABLE ON P	HECK MARKS	LISTED BET	-om ber mit
$-\frac{\rho_1}{-\rho_1}$	ECE MAR	US FOR POOF FRAME	YES INFROGRESS	02R 31: # 145	2}
- P10	1 in market	IN PROGRESS FOR	577110 #0 44 15	PAND RAILS:#	33A #337
- Pié	IR MARKS	completed FORS	MAS#6 \$#9 R	tonos & RALLS: #	27A
•			ž.		
WELDER	CEF	RTIFICATION / EXPIRATION DATE	WELDER	CERTIFICA	ATION / EXPIRATION DATE
QUALIFIED	WELDE	RS WITH CERT	IFICATIONS O	J FILE.	
0.51110	7000	OCITIO CENT	7 10 10 10 10 10 10 10 10 10 10 10 10 10	<u> </u>	
Electrode Used: L I N	ICOLN OU	TERSHIELD 71M	E717(1€9) WITH	+ 100% CO, SH	FLAING GAS
☐ Additional Page (Pag			REPORT Contain		Non-Compliant Items
	tification of Con	•	All inspections based on minimu	m of 4 hours for work performed	l over 4 hours = 8 hours minimum.
declare under penalty of perjury personal knowledge the work duri	that all of the above s	statements are true, and that of my own by this report has been performed and book 為政策制 applicable codes			ur minimum charge will be applied.
	0//	C12		CAL II	1//
Inspector's Name	J. J. J. J. R. B	ELAS E THOMPSON A	Approved/Authorized	by Uffical (PROJECT	SUPERINTENDENT)
Inspector's Signature _) EXCL	1617171 1000 10 0 N			
Inspector's License #_	041212	& CHAISS CUIT	Submitted by		

ACCOUNTING



RECEIVED
Design & Construction
U.C. Riverside

AUG 3 1 2007

Date:

August 28, 2007

Report distribution package of Field Inspection Reports and/or Laboratory results on materials tested.

Job Name:

UCR Chass Bldg.

Job Address:

3615-A Canyon Crest Drive

City:

Riverside, CA

Client Name:

UCR Office of Design & Construction

You are receiving these reports at the request of our client. If you are not the correct recipient or wish to discontinue to receipt, please contact Denise DeGroff at 714/556-5867.



TESTING ENGINEERS					
INSPECTOR CODE THOM	JOB NUMBER	05-1425	DATE 7/25/0		T F S S
JOB NAME ULR		BULLDING	BUILDING / OSHPD PERMIT # /	DSA-APP #	DSA-FILE #
ADDRESS 1634	W. 14th C	T. LONEBEACH	GENERAL CONTRACTOR CO	NSTRUCTION [o DSA
LES A. DAL	ENGINEER SATFL	ol /BOQUET	SUBCONTRACTOR (If Any)	ARRIGITION 5	ito.D
REQUIREMENTS: Limit	of one job number, one p mmunication (RFI, Sketch	ermit number per sheet. Id h, etc.) voiding previous no	entify all work by type and n-compliant items must be	SPECIFIC location. Non	compliant work must be
		HO	JRS		
REGULAR	1.5X	2X	TIME IN	LUNCH	TIME OUT
8	2		6:00Am		4:30 pm
Re-Inspection		☐ Show-Up Only		Expenses	
✓ Shop	☐ Field	⊠ Welding	Bolting		npling
☐ Fireproofing	DDT (HRS	S)			
CONTI D) PADMORD	NUATION SHEETS AND S	SKETGHES IF NEEDED)	ELTION OF ST	RUCIVERC ST	22 15 Sim 34
WELDING AW	s all smeas	OF SHOP H	BRIGHON Op.	ERATIONS INC	LUBING
MATTERIAL SO	NA CEPTITÉ	D MILL TEST	REPORTS, MA	remans In	-THEW WIT
TO VENGTH	a pirece ma	rekto on In	rollionar pine	LES FOR NAT	CRABILITY
Purpusies, w	cupins pirity	fund By LERT	ities ownities	weinger u	TH CERTS BU
THE PER	Approves, pix	MS SOENFU +	now Distance,	WKS, Aus	DIIL & AFSC
CODE WITH D	5.Astampin A	posime mic	The Ending	ML PIEURS O	NT BR
Europ Poni	- MAR SIA	R. F. 38 A	90A , 90-11	t precenar	les Acc
MBRUANW	IN PROBLESS				
					<u> </u>
		بدرة مالوجود مليهم به ود وقد بهدر ز ر به الله با د داد با به مرده و با يهم المالية واستعضامه و استريم	Sharry Line was a same		And principles of the second s
		<u> </u>		proside the second second	
				-	
WELDER	CERTIFIC/	ATION / EXPIRATION DATE	WELDER	CERTIFIC	ATION / EXPIRATION DATE
7 NO 8 - 5 14	mous in h	1.5			
0000	7(000)				
Electrode Used:	IN LULY OUTE	PSIMELOZIM A	5.20 E 71T1	WITH 100%. C	Or SHELDING GAS
☐ Additional Page (Pa	ge #) CM		REPORT ☐ Contai	ns Not Contain	Non-Compliant Items
Ce	rtification of Complian	ice			d over 4 hours = 9 hours minimum
I declare under penalty of perjur personal knowledge the work du installed in compliance with the a	y that all of the above statemer ring the period covered by this	nts are true, and that of my own report has been performed and			d over 4 hours = 8 hours minimum. our minimum charge will be applied.
Inspector's Name	Torrive T.	tompsin	Approved/Authorized	by alfred	SUPERINTENDENT)
Inspector's Signature	1	2		(PROJĒČT	SUPERINTENDENT)
Inspector's License #	0	21 Auscui	Submitted by		
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		ACCOU	•		



TESTING ENGINEERS	•								
INSPECTOR CODE	JOB N	UMBER -14 25	DATE 7/26/0	7	A T	w	X	S	S
JOB NAME R. CHAS			BUILDING / OSHPD PERMIT #	/ DSA-APP #		C	SA-FILE	#	
1DDDC00	THET	LONG BEACH	GENERAL CONTRACTOR A MOR (SO CON SUBCONTRACTOR (If Any)	ishevetion	Co.	J	URISDICT		
ARCHITECT A. DALG	ENGIN		SUBCONTRACTOR (If Any)	ABRICAT	14N 9	RHOP			_
REQUIREMENTS: Limit specifically identified. Co	of one job number, ommunication (RFI,	one permit number per sheet. Id Sketch, etc.) voiding previous no granting authority officials.	entify all work by type and	SPECIFIC IO	cation. No	on-com	oliant w	ork mu munica	st be ations
		HOI	JRS						
REGULAR	1.5X	2X	TIME IN	LUN	IСН		TIM	E OUT	
8	2		6:00 AM				4:3	op.	M
Re-Inspection					enses _	-			
☑'Shop	☐ Field	✓ Welding	Bolting _		_ 🗆 s	amplin	g		
☐ Fireproofing		(HRS)							
REPORT: (INCLI	JDE LOCATION OF	WORK INSPECTED, JOB PROG	RESS AND NOTE ANY W	ORK REJECTE	D OR JO	B PROE	BLEMS.	ATTAC	H
		US VISUAL INS							
		MATERIAL TOP							
REPORTI. W	ELDING PILE	FORMED DER STAM	3 AGO ADDIZO	KUD SIKU	2 20	- ρ u	~^ <u>~</u>	צש 4	MGH (
W.P.S. DIN	& AISC. W	ENDING PERFORMED WPS. FURNITHE	by Cennes	a coco	rike w	15.0	<u> </u>	<u>W 11 t</u>	
SO STAP (1)	17-34-0H . 11	WITHOUT FRIGHT	or pieces -	UA)	W) 11 (15	, <u>, v.</u>	- VC		.020
		DUNCE PETA				- · · · · · · ·			
		,							
	AND THE RESERVE THE PARTY OF TH	CONTRACTOR AND THE STATE OF THE		a transference description	- Constitution of the Cons		-		
			- ORIGINAL ORIGINA ORIGINAL ORIGINA ORIGI	and produce and the second					
/				1 1					
L.									
WELDER	CEB	TIFICATION / EXPIRATION DATE	WELDER		CERTIF	ICATION	/ EXPIF	RATION	DATE

WELDER	CERTS ON 1	ni Cle							-
Clasticals Lland.		50 CU - 1 A D 1 A 1	1 6 2 - 12 100		_ J f		<u></u>	. 4. 45	· /~ . 6
Electrode Used:	NCOLN OF	HOLLING IN M	+5.20, EZIT		0 7, 0	<u>-₹/</u> 2_	SHE	u)M	1945
Additional Page (Pa		/ / / / / / / / / / / / / / / / / / / /	I Lionta						
			REPORT ☐ Conta	Not Contain		No	n-Con	pliant	
ersonal knowledge the work di	ertification of Com	npliance	REPORT Does	Not Contain		med over	4 hours =	8 hours	t Item
istalled in compliance with the s	ertification of Com ry that all of the above suring the period covered	npliance tatements are true, and that of my own by this report has been performed and	REPORT Does	Not Contain		med over	4 hours =	8 hours	t Item:
·	ertification of Com ry that all of the above s uring the period covered approved plans, specificat	npliance tatements are true, and that of my own by this report has been performed and ions and all applicable codes	REPORT DOES All inspections based on minin if inspector is called to a project	Not Contain		med over	4 hours =	8 hours	t Item:
nspector's Name	ertification of Comry that all of the above suring the period covered approved plans, specificat	npliance tatements are true, and that of my own by this report has been performed and	REPORT Does	Not Contain	erformed, a 2	med over	4 hours = imum cha	8 hours rge will be	t Item
·	ertification of Comry that all of the above suring the period covered approved plans, specificat	npliance tatements are true, and that of my own by this report has been performed and ions and all applicable codes	REPORT DOES All inspections based on minin if inspector is called to a project	Not Contain	erformed, a 2	med over 2 hour min	4 hours = imum cha	8 hours rge will be	t Items



TESTING ENGINE		,		·			 	VA/ 77	- 1 	
INSPECTOR CODE		JOB NUMBER	425	DATE 7/2	7/07	М		<u>" ' </u>	۶ ۱	s
JOB NAME CH	ASS BUIL	OWG		BUILDING / OSH	PD PERMIT # / D	OSA-APP #		DSA-FIL		
ADDRESS 1634 W.	14th St	,CIT	NG BEACH	GENERAL CONT	0SO (O^	18TRUCTION	J Ca	JURISDI	CTION C	
ARCHITECT A.O		ENGINEER	1800055	SUBCONTRACTO	OR (If Any)_	RULATION				
PEOUBEMENTS:	imit et one ich nu	mher one nerr	nit number per sheet. I	dentify all work	by type and S	SPECIFIC loca	ation. Non	-compliant	work mus	st be
with project designer	s, building and pe	ermit granting a	etc.) volding previous natherity officials.	on-compliant ite	ems must be i	istea, recora t	,onversau	ons and co	miumoa	
			HO	URS						
REGULAR	1.5	5X	2X	TIME		LUNC	Н		ME OUT	
8	2	_		61.00	AM			4:	30P1	4
☐ Re-Inspection _			☐ Show-Up Only _				ises			
₩ Shop	——— Field		Welding		Bolting		☐ Sar	mpling		
☐ Fireproofing			=		•					
, .			NSPECTED, JOB PROC	BESS AND NO	TE ANY WOE	RK BEJECTED	OR JOB	PROBLEMS	ATTAC	Profit a
and the second of the second o	INTINUATION SH	EETS AND SK	ETCHES IF NEEDED.)							
PROVIDE	0 W	n mani	ISUM FN							
ODERATIO	NS INC	MOM	STEEL MA	TERIAL S	FOEVI	1FICAT)	1_00	VIA CÉ	2715	ié0
MIUTE	ST RED	DRAS 1	LEWING DE	ERFORM	ÉD DE	C STAM	DED :	ANN A	pro	NZO
STENCE U	en pia	us Diet	mus Appr	ONED FO	REMBRI	KATION	2 3700	pron	17/22	·
$-\omega$, ρ S.	DILLEAS	ISC U	ENDING DE	RJORMI	ed Bu	1 am	11180	FLE	<u>egr</u>	7 <u>2-6</u> 0
MENSE	e with	(ERT)	FLATIONS OF	VINCE	1 7 12	co mo	XXX Z	12V-T-	78 111	201.0
			UN PROCES	7 M	ntic 3	5N1.10	9172	vosvi 3)	is w	okics
- (N pic	GRESS 1	NCLUNG					#88	λA		
	GUARA R	A1 -S	TRAGHT S	MR#1	0164	mark				
	_ <u> </u>	·// C	<u> </u>	, ,, <u>,, , , , , , , , , , , , , , , , </u>	1.00		#89	JA		
							# 8	92A		
	FAB PLAT	مم رب کی	weress.	~		<u>A</u> —		·	<u> </u>	
					<u> </u>					
								-		
WELDE	:R	CERTIFICATI	ON / EXPIRATION DATE		WELDER		CERTIFIC	CATION / EXP	PIRATION	DATE
WELDER	८६ थाउँ ०	NALR								
										1
Electrode Used:	LINCOLN	OUTERSI	hen 71m,	45.20 E	71T1 W	100%	30257	herount	645	,
☐ Additional Page				REPORT	□ Contair	ns lot Contain			mpliant	
	Certification o	•		All inspections	based on minimu	m of 4 hours for w	ork performs	ed over 4 hours	= 8 hours	minimum.
I declare under penalty of personal knowledge the wo installed in compliance with	ork during the period	covered by this rep	are true, and that of my own bort has been performed and Il applicable codes	If inspector is ca	alled to a project a	and no work is per	ormed, a 2 h	our minimum c	narge Will D	е аррпеа.
Inspector's Name	TERRI	ue Tho	ups on	Approved/	'Authorized	Leffu	(PROJEC	T SUPERINTE	NDENT)	S
Inspector's Signatu	,		<u>-</u>						0	,
Inconstor's License	a# aU	121271	AWSCUT	Submitted	bv					



Inspector's Signature _

3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

		·	ъ.			714/556-5867	
TESTING ENGINEERS		Inspection					
INSPECTOR CODE	JOB NUMBER 5-1425	<u> </u>	DATE _	7 /3-8/07 RMIT NUMBER / DSA			
JOB NAME C. 2 CHA	SS RULDING				OSHPD APP. FIL	E# JUHIS	DICTION
1674 W. 14	LTU ST LONGIRE	act _	A	CONTRACTOR	LONSTR	NOTION C	<i>3</i> ·
LED A. DALY	SAI FUL BOG	WET	L.	RACTOR (If Any) ひいをしい	FABRICA	MON I HO	2
REQUIREMENTS: Limit of or specifically identified. Commu	ne job number, one permit number unication (RFI, Sketch, etc.) voiding ng and permit granting authority off	per sheet. Id g previous no	entify all in-complia	work by type and ant items must be	SPECIFIC loc- listed, record	ation. Non-compliai conversations and o	nt work must be communications
			JRS	7			UE OUT
REGULAR	1.5X	2	2X		TIME IN		3 d Pm
0-	8						20 bW
☐ Re-Inspection	Show-	Up Only _				nses	
☐ Reinforcement Concret	e Concrete F	Placement		🗆 Maso	onry		NA
🕏 Quality Control	_	☐ Prestre	ess/Post	Tension	&Othe	r SHOP WE	NOING /FAB.
		INSPE	CTION				·
STARTED @: 6460A	1st TRUCK BATCHED	:	ME	THOD OF PLA	CEMENT:	<u> </u>	
PRONNED WO	VTINOUS VISUAL.	SHOP ?	FABR	MATION :	INSPEC	TION DUY	415
	INCLUDING STEN						
	FIED MILL TEST					_	_
la la	POLMED PER	•				_	
DRAWINES &	DETAILS ALSO	Simme	2561)	ANDRONS	p For	CONSPERCO	rion
SHOW DRAWING	55, AWS DI.I F	HISC 8	SW	5. CERT	RED & (JUALIFIED	WENDERS
FARRUAGED 1	NEURS AM MA	AMA A	Cris	2715 CATIO	11/Ova	NFICATION	s on five.
Flux 1:000 AC	e weiding proce	ce of FC	Ani)	WATH LIV	JUBLIN 0 V	TERS there	071m
AT 20 ENT), w/ 100 1. Co)2 (H)	SW/W	56.AR	<u></u>	- 1	
-< 70 m 64	& FLAR GUARDI	22/18 6	30	TANK #	1 1200	WERRS	
31741CH	mary # 88A, #	094 1	1091	A # 897	A # 90A	#ODALA	
press	rolace to on, a	" 	9 1.1	7 11 4 2	t 4, 102	} 	
· · · · · · · · · · · · · · · · · · ·	·	SAN	IPLES				
CURRILER:		JAN	11 LLO				
SUPPLIER:	DESIGN SLUMB MEASURE	D ADM	XTURE	DESIGN PSI	CUBIC YARD	S SPECIMENS	TEMPERATURE
MIXED NO. TICKET #	DESIGN SLUMP SLUMP	ADMI	XIUNE	DESIGN PSI	COBIC TAND	3 SPECIMENS	AMB CONC.
	<u> </u>	_				_	-
<i> </i> <i> /-//-</i>	<i>y</i>					-	
, , ,				☐ Conta	ne		
☐ Additional Page (Page	#) CM		REPO	RT 🔯 Does	Not Contain pection of	Non-G	Compliant Items
	cation of Compliance tall of the above statements are true, and	that of my own				vork performed over 4 ho formed, a 2 hour minimur	
personal knowledge the work during t	the period covered by this report has been ed plans, specifications and all applicable co	performed and	ii iiispect	or is called to a project	. בנוט ווט שטוג וז טפו		//
	RREWE THOMPSON		Appro	ved/Authorized	by Old	Dull-L	eman!
· F	0 - "		pp.0	. 50,, (0111011200	-,	(PROJECT SUPERIN	TENDENT)

ACCOUNTING

Inspector's License # SYMIL (AUSCUT | Submitted by _



TESTING ENGINEERS		•	Jection vehori		
INSPECTOR CODE	JOB NUMBER	15-1425	DATE 7/3 0 07	Y T Y	N T F S S
LOD MANE	CC BUILDING		BUILDING / OSHPD PERMIT # /		DSA-FILE #
ADDRESS 4 W.	14th ST.	CONTE BEACH, CA	GENERAL CONTRACTOR AMORDSO (anstruction.	JURISDICTION SA
ARCHITECT A DA	IN SAI	FIL ROQUET	COWELLO FAR	RUSTION SHOD	
REQUIREMENTS: Limit	of one job number one no	ermit number per sheet. Id n, etc.) voiding previous no	entify all work by type and	SPECIFIC location, Non-	compliant work must be
with project designers, b	uilding and permit granting	g authority officials.		· · · · · · · · · · · · · · · · · · ·	
		HOL		LUNGI	TIME OUT
REGULAR	1.5X 2	2X	6 COOAM	LUNCH	4:30Pm
<u>8</u>					
		☐ Show-Up Only			
•		X Welding	Bolting		npling
☐ Fireproofing	DDT (HRS				
REPORT: (INCLU	JDE LOCATION OF WORK	(INSPECTED, JOB PROGI SKETCHES IF NEEDED.)	RESS AND NOTE ANY WO	RK REJECTED OR JOB	PROBLEMS, AFTACH
表现代表表现2000年的中华人民间的"ACLA","2017年,1987年中,不是一个不是一个		INUUS VISUA	5.4. S. S. S. L. L. Charles, A. L. A. M. M. P. S.	10 SA (10	N FARRUATION
DRALIES !	NCLINING 1	MATERIAL I	DUALTICATION	N TRACINE	OSR GRAPTED
MILLTEST	RAPORTS &	TRUE MARLE	LABELS ON S	MERL PIECE	15. WOLDING
DERFORMI	DER ST	AMPED AND A	APROVED B	4 05A ST	RULTURAL
DRAW, NOS		Approved	ESTAMPED 1		
1) QAW, NO		· / · · · · · · / -		· · · · · · · · · · · · · · · · · · ·	AUBED 100 AUBO
STEAR		THROUGHOUT			
GALVAN	364 FASR	-1001001 10 (ANTINOUS PA	206R2SS:	
STA	est GUARD	RAL -FLAG		10A, # 901	4
		STRAIG	HT# 69A, # 0	19 H', # 892	A
00	om#1020 f	2. (1.8)	4) id A =4: (A:	4:112 #:11-16	R H L R A
(40	om#1020 k	471C(10) 2)	#41RA #54 1	#514 #CR	17 < 1R
			TION TON,	15 (A , 13 B	1
	tu, N pro 5	riss -			
WELDER	CERTIFICA	ATION / EXPIRATION DATE	WELDER	CERTIFIC	ATION / EXPIRATION DATE
CE 02051	ATIMITAN	FILE FORL	1510625		
	34) [40]	1 000			
Electrode Used: L	NICOLN BUTTER	SHEW71M	AS.20 E7171		2 SHEWING 645
☐ Additional Page (Pa	age #) CM	<u></u>	REPORT Contain Does	ins Not Contain	Non-Compliant Items
I declare under penalty of perju	uring the period covered by this	nts are true, and that of my own report has been performed and			d over 4 hours = 8 hours minimum. our minimum charge will be applied.
Inspector's Name	TERREUR]	HOMPSON	Approved/Authorized	by Office	SUPERINTENDENT)
Inspector's Signature	Jules				
Inspector's License #	041212	21 AWS CWIT	Submitted by		



TESTING LINGUINEERS	•	•		•					
INSPECTOR CODE	JOB N	IUMBER 05-1425	DATE 7/	31/07	М	Ϋ́	ŤF	S	S
JOB NAME CHAST				IPD PERMIT # / DS	SA-APP #		DSA-FILE#		
No 34 W.	14th ST	LONG BEACH CA	GENERAL CONT	RUSO GO	NS TRUCT	W Co.	JURISDICTI OS/		
ARCHITECT A, D	ALY ENGI	ALTUL/BOOVET	SUBCONTRACT	LCO MS	SRIANU				
specifically identified. Co	mmunication (RFI,	one permit number per sheet. Id Sketch, etc.) voiding previous no granting authority officials.	entify all work n-compliant it	by type and SI ems must be lis	PECIFIC loca sted, record o	ition. Non-co conversation	ompliant wo s and comr	rk must nunicati	. be ions _y
	<u> </u>	HOI	JRS						
REGULAR	1.5X	2X	TIME		LUNC	Н		OUT	
8	7		6:00	AM			4:3	d Pa	1
☐ Re-Inspection		Show-Up Only			_ □ Expen	ises			
Strand	☐ Field	X Welding		Bolting		☐ Samp	oling		
☐ Fireproofing		<i>y</i>							
REPORT: (INCLU	DE LOCATION OF	WORK INSPECTED, JOB PROG	RESS AND NO	TE ANY WORL	K REJECTED	OR JOB PF	ROBLEMS. A	ATTACH	ego Aest Box III
		AND SKETCHES IF NEEDED.)	4.4.4.5.5						
I) PRO	VIDED	CONTINOUS VI	·	INSPE					
or Sho	P FABR	ICHTION PROCE							MAGRICA
TRACIN	e her	CERTIFIED MILL		REPOR	20.0	DIE OF			-
LABILLING	ON EAC		WELL		DERTON	emel			MPED
4 A00 A50	120 P.	USA STRUCTURE	MUED	477 VEZ	JORNA S	57C 2			WED OF
Aprovo	FUIC COX	A	A 1.	7 470	DEIGN	10.00	TWE		ZIDERS
1.1.74 C	CODE,		0000	y CILLY ORMEN	1151501	t ar	FASR		
Piere	MADLIED	TRACEABLE ST	1		aren 1	THRI			
Com @ 15	Man U	DUNTIL REVE		,		,	10 () C		
	•	V	ŕ						
PIECE.	naplus lo.	MPIETED FOR ST	MRHI	GUARC	RAIL	-FLA	nR#	88A,	AIOPAOP
, , , , , , , , , , , , , , , , , , ,	١,	<u>'</u> '1 ST	mrati	GUARDI	<u> </u>	STRAN	647#	89A,	8914, 893.A
				(()					<u></u>
PIEUZMAR	hs wpro	GRESS ROOM#10	30 KM1		174A,4				<u>8A</u>
					#5A,#	51A,#	·5B,*	513	
WELDER	CEF	RTIFICATION / EXPIRATION DATE		WELDER		CERTIFICAT	ION / EXPIR	ATION E	DATE
WELDER	3 CELIS	ONFILE				·	_		
				_					
Electrode Used: (1)	VULN OUT	ERSHIELD 71M, AS;	20,571	TIWI	100%. 6	N, 5 Hie	ZPING G	ias	
☐ Additional Page (Page			REPORT	☐ Contains ☑ Does No		ب	Non-Com	pliant I	Items
	rtification of Con	•		based on minimum					
	ring the period covered	statements are true, and that of my own by this report has been performed and tions and all applicable codes	If inspector is ca	alled to a project and	d no work is perfo	ormed, a 2 hour	minimum charg	je will be a	applied.
Inspector's Name	ERYLE U	E THOMPSON	Approved/	Authorized b	y Aff	UPBONECT SI	DEFINITENDE	<u>iaes</u>	is f
Inspector's Signature	Jun	uf				(, 1100201 30	5. CIM41CIADE		\mathcal{O}
Inspector's License #	0417	LIZZI ANSCHIT	Submitted	by	· · · · · · · · · · · · · · · · · · ·				



INSPECTOR CODE	JOB NI	UMBERS -1425	DATE 8/1/5		TFSS
JOB NAME CR. CH	IASS BUILD		BUILDING / OSHPD PERMIT # /	DSA-APP #	DSA-FILE #
ADDRESS 34 W. I	4th57 1	ON & BEACH	GENERAL CONTRACTOR AMUROSO C	DNSTRUCTION CO	D SA
ARCHITECT A DAG	ENGIN	EER EN ROQUET	SUBCONTRACTOR (If Any)	RIGHTION Stop	
I specifically identified, Co	of one job number,	one permit number per sheet. Id Sketch, etc.) voiding previous no	entify all work by type and	SPECIFIC location, Non-	compliant work must be ons and communications
with project designers, b	uilding and permit g	ranting authority officials.	·		
			JRS TO THE IN	LUNCH	TIME OUT
REGULAR	1.5X	2X	TIME IN	LUNCH	4:30 Pm
0	<u></u>		MAUGID		1,301,24
☐ Re-Inspection		Show-Up Only			 .
Shop	☐ Field	🕰 Welding	Bolting		npling
☐ Fireproofing	DDT	(HRS)		I MANGEMENT CONTROL CHANGE TO THE TRANSPORT OF THE TRANSP	
REPORT: (INCL	JDE LOCATION OF	WORK INSPECTED, JOB PROG	RESS AND NOTE ANY WO	RK REJECTED OR JOB F	ROBLEMS, AFTACH
		AND SKETCHES IF NEEDED.)	Harry Carlotte		
I) Prov	WED CO.	UTHOUS VISUA	L INSPECT.	IN OF AUS	MEL
OF SHOP	TABRILAT	IN INCLUDIA	S DEADET	C JOYEVITTE	AARICE
TRAZING	01500	FIED MILL TEST	5 120 PONCY F	DER STAMP	(n &
ADDRESS OF	2. D.S.A	STRUCTURE D	844779 C	EMIS AND	ADPADINED
الممرين المالية	We are the to	STAMPED THON	DRAWNES A	RWELL MS.	AWS 01.1
LISLAN INC	CANG A	THE & WIDS	LAIGALING RC COOL	eathern and	MURED
o Elform Es) ALL WE	LOWE ON THI.	S PROJECT &	Murin OW	THA CERTS.
TON FUE.					
		1 = 00000	· · · · · · · · · · · · · · · · · · ·	20-16-0	2/
	TELL MANE	LS IN PROGRES	2) KOOW 10 2	DV CUST	د)
	# 44 AF	14 #4B #418,	# 70H, T 11	67	
·	PHECRAMI	IA, # 5B, # 51B ESIN PROGRESS PIRE	EC MALLISTE 13	7A # 141A T	F145A
TA	1 C. N. 77 NO	us progress.	· · · · · · · · · · · · · · · · · · ·	·	
		V V.3 31			
	···				
WELDER	CEF	TIFICATION / EXPIRATION DATE	WELDER	CERTIFICA	ATION / EXPIRATION DATE
14154 105	R < (50T	FLIATIONS ON	515		
Voecbe	es and	if colitani on			
Flacture de Moode N				/1007. CO2 S	theroug (As
Electrode Used: L	incorn a	mastrico 71M AS	∃ □ Conta	./	
☐ Additional Page (P			REPORT Does	Not Contain	Non-Compliant Items
	ertification of Con		All inspections based on minim	num of 4 hours for work performed	d over 4 hours = 8 hours minimum. our minimum charge will be applied.
personal knowledge the work of installed in compliance with the	luring the period covered	statements are true, and that of my own by this report has been performed and tions and all applicable codes	in inspector is called to a project	t and no more to performed, a 2 lic	starge till be approu
Inspector's Name		_	Approved/Authorized	thy Marill	lleurens
Inspector's Signature	Jully	8m	Approvourationzed	(PROJECT	SUPERINTENDENT)
inspector's Signature	KU1717	ZIMSUNT	Submitted by	/ .	
inspector's License #	071010	01 //- 0 00 12	TOUDITHILEG Dy		



TESTING ENGINEERS		Toothing & mor		, , , , , , , , , , , , , , , , , , ,		 , , , , , , ,	T W	1			
INSPECTOR CODE	JOB NUMBER	4-1425	DATE 8 /2	ATE 8/2/07 M				X	F	S	S
IOR NAME -	S Building		BUILDING / OSHPD PERMIT # / DSA-APP # DSA-FILE # GENERAL CONTRACTOR JURISDICTION								
ADDRESS		NG Breet, CA	GENERAL CONTR	ACTOR CO.	us tru:	ursn	ලා	JURIS	DICTION S.A	۱۱ 	
ARCHITECT A 10.	ENGINEER	SU ROCK	SUBCONTRACTOR	3 (If Any)							
REQUIREMENTS: Limit of specifically identified. Col		ermit number per sheet. Id n, etc.) voiding previous no g authority officials.	antify all work b	v type and	SPECIFIC	: location	Non-co	omplian s and c	t work	must inicati	be ons
man project designers,		HOI	IRS								
REGULAR	1.5X	2X	TIME	N		LUNCH	NCH TIME OUT				
8	2		6:00	AM				4:	39	₽ ∧	<u> </u>
Re-Inspection		☐ Show-Up Only			🗆 E	xpenses	S				
		[X Welding	П	Bolting] Samp	oling _			<u>.</u>
☐ Fireproofing				J			·				
			RESS AND NOT	F ANY WO	RK REJE(OTED OR	JOB PF	ROBLE	us. At	TACH	a Istor
REPORT: (INCLE	NUATION SHEETS AND S	SKETGHES IF NEEDED.)		er per per per per per per per per per p	opera and Private design						
		SUS VISUM							كركاء	>	
of 5 this	LABRUATIO	an inclusin	is what	TERUSE	LI	_DZ <u>^</u>	ME	KAT	100	<u>) </u>	
AND TRACE	UT DER CER	TIFED MILL	TEST A	EPUR	<u> </u>	PIE	re	MA	nel	ىك	
UNIOST LAD	MUM PIEC	ES WELDI	NG DIE	RIVE	ME/	Dr	16 83	M	05/	<u>)</u>	
MAN ANDRO	WISM RI. D	SA STRUCTUR	al Dra	\mathcal{M}_i \mathcal{M}_i	G , Z^{z}	em	1 LZ	A٨	<u>N) </u>		
DANDANKO	FOR COSTSTON	ATZ LACTU	MOIED !) HOW	1)2Au	JING:	> ./ti	$s \omega$		LA	3
A_{1}	INTERNAL CO	DOR ALSC.	51WF	. 02	ان ا	CE 197	שרור	D = 0	<u>y </u>	75	4)]
MEINERS	WITH GERTI	FLETTIONS ON	FILE	PÉRI	Foten	NED ,	Acc	WE	ip	<u>, ۲/۲</u>	
Engoigh	- 45										
-21	VIII mables 1	impleted For	COUPTIO	20 Rx	14	sf2)	#4	A ,#	41A	#41	3 ,##
- Di	PRI MARKS 1	N PROBLEST	TOR RUE!	八年(0)	SO .	KAL	(16	+ 6	<u>) </u>		
-11	41B #4B/	1, 441BA, #5	1A #5B	#51	B, #	6 A H	63,	#6	<u>c</u>		
-,200	F FRAMES DI	REEMARLES IN	progr	255 #	137 A	+, #1	41A	#	<u>14(</u>	TA_	<u> </u>
			<u> </u>								_
					. : :	· · · · · · · · · · · · · · · · · · ·					
WELDER	CERTIFICA	ATION / EXPIRATION DATE		WELDER		CEI	RTIFICAT	TION / E	XPIRA	TION	DATE
						-					
WELDING	CERTIFICATIO	ons on the	<u> </u>	-							
Electrode Used: し、	NIGHN OUTERS!	HELD TIM, AS	20, E71T	1 With	130	<u>1. </u>	SHE	DING	64	8	
☐ Additional Page (Page			REPORT	☐ Contai		tain		Non-	Comp	liant	Item
Ce	ertification of Complian	nce	All inspections b	ased on minim	um of 4 hou	rs for work p	erformed	over 4 ho	urs = 8	hours m	ninimu
I declare under penalty of perju personal knowledge the work de installed in compliance with the a	uring the period covered by this	nts are true, and that of my own report has been performed and d all applicable codes	If inspector is cal	led to a project	and no work	k is performe	ed, a 2 hou	r minimur جمدہ	n charge	e will be	applie
·	TERREUE J		Approved/A	Authorized	i by <u>(</u>	Ulres	ROJECT S	Un	'Usa	en	D
Inspector's Signature	\ 1	5				/ (PI	HOJECT S	UPERIN'	IENDE	NI)	6
Inequator's Liganse #	6 /	1 AWS CUIT	Submitted	bv	•						



TESTING ENGINEERS	X	Testing & Insp	pection Report	71 1/33	7 11030 3000					
INSPECTOR CODE	JOB NUMBER	-1425	DATE 8/3/07	MT	W T X S S					
	mes Building		BUILDING / OSHPD PERMIT # /	DSA-APP #	DSA-FILE #					
ADDRESS		CITY LONG BRACH	AMUROSO CONSTRUCTION CO. DSA							
ARCHITECT A JAL	ENGINEER	L/BOQUET	SUBCONTRACTOR (If Any)	Birrayron Sto						
REQUIREMENTS: Limit specifically identified. Co	of one job number one n	ermit number per sheet. Ic n, etc.) voiding previous no	lentify all work by type and on-compliant items must be	SPECIFIC location. Non	-compliant work must be					
Will project designers, s			URS							
REGULAR	1.5X	2X	TIME IN	LUNCH	TIME OUT					
8	2		6:00 AM		4:00 PM					
☐ Re-Inspection		_								
			Bolting		mpling					
☐ Fireproofing					···F·····9					
T) PROVI OF SHOY WAY OF NAMBERS A BY QUALL ON FILLE DETAILS DETAILS - PIE - PIE	MATTERIAL: MATTERIAL: MATTERIAL: MATTERIAL: MATTERIAL: MATTERIAL: MENDS MENDS	INDUS VISU INDUS VISU INDUSTRICA DAILITEST PROVED PROVED OMPLETED FOR UE CONSTRUCT DECONSTRUCT OMPLETED FOR UP PROFINESS:	BY DSA. STAMPS E, AISC, &	TON DE A MELDING D WELDING D M MAINTHIN DERFORME WITHAL DE WITHAL DE WIPS. ML(1 of 2) #418 (20+2) #6A	CC STABES PIC BY PARKED PECOPOSI D/FABRICATED AUINGS/ B,#4BA#5B,#51B A,#51A. **6B, # 6 C					
WELDER	CERTIFICA	ATION / EXPIRATION DATE	WELDER	CERTIFIC	ATION / EXPIRATION DATE					
1 15 4 DIN	E CERTIFICA	TIGHT DW T	nue							
West										
Electrode Used: L	roly outers P	herd 71m Asia	SESITI WITH 10	O). COZSMEL	deng 6.49					
☐ Additional Page (Page (Page)			DEPORT Conta		Non-Compliant Items					
Ce I declare under penalty of perju personal knowledge the work di installed in compliance with the a	uring the period covered by this	nts are true, and that of my own report has been performed and			d over 4 hours = 8 hours minimum. our minimum charge will be applied.					
Inspector's Name	·	ompron	Approved/Authorized	by Myseci	SUPERINTENDENT)					
Inspector's Signature	54121221	A115 C5	Submitted by							
Inspector's License #	JUL LU	TWO YOUL	Submitted by							



Inspector's Name ___

Inspector's Signature

Inspector's License # #04121221

3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

714/556-5867 • 714/556-5868 **Inspection Report** TESTING ENGINEERS JOB NUMBER 1425 INSPECTOR CODE 0) TMOHT BUILD PERMIT NUMBER / DSA / OSHPD APP. FILE# CHASS BULLING GENERAL CONTRACTOR
AMOROSO CONTRUTON CO. SUBCONTRACTOR (IF ADV)
COWELLO HABRICATION REQUIREMENTS: Limit of one job number, one permit number per sheet. Identify all work by type and SPECIFIC location. Non-compliant work must be specifically identified. Communication (RFI, Sketch, etc.) voiding previous non-compliant items must be listed, record conversations and communications with project designers, building and permit granting authority officials. **HOURS** TIME OUT TIME IN 1.5X REGULAR 6:00Am 130 PM ☐ Show-Up Only _ Expenses Re-Inspection ☐ Concrete Placement ☐ Masonry ☐ Reinforcement Concrete ☐ Epoxy/DIA _ Quality Control WI Administration Prestress/Post Tension Mother SHOP WELD INF **INSPECTION**

STARTED @: 6 600 AM	1st TRUCK BATCHED:	METHOD OF PLACEMENT:
		MON OF ALL STAGES OF SHOP
TARRICATION DAS	PRATIONS AND QUALITY	CONTROL BY WAY OF MATERIAL
TOENTIFICATION	TRAUNG VIA DIR	LE MARK NUMBERS AND CERTIFIER
MILL TEST RE	JORTS, WIELDING PIER	FORMED BY QUALIFIED AND
(ERTIFIED DER	AWS DILL AND MA	INTAN PELBEDS ON FILE WEWS
Visuariu Arle	STABLE AND DERFORM	ED PER STAMPED AMB APPROVED
RU DSA STRI	CTURAL PRAVINGS PE	TAILS, SHOP DRAWING APPROVED
FOR WASTRUCTI	ON DEPAILS AWS D.	. I, AJSC, AND WSS.
-0,5,6, M	ANDLIS COMPLETED POU	M# 1020 RAIL#418A, # 51A, #6B
- DIELE MA	ens in propress pro	n+1020 Rrit #64, #6C
- DIENE, MA	AND FOR ROOF FRANKS	N PROGRESS: # 137A, #14(A, # 145A

SAMPLES SUPPLIER: **TEMPERATURE** MEASURED **SPECIMENS ADMIXTURE DESIGN PSI CUBIC YARDS** MIXED NO. TICKET # **DESIGN SLUMP** AMB CONC. SLUMP ☐ Contains ☐ Additional Page (Page #) CM _ **REPORT** ▲ Does Not Contain Non-Compliant Items ☐ Reinspection of Certification of Compliance All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours minimum. I declare under penalty of perjury that all of the above statements are true, and that of my own If inspector is called to a project and no work is performed, a 2 hour minimum charge will be applied. personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans, specifications and all applicable codes

ACCOUNTING

Approved/Authorized by_(

Submitted by



Inspector's Signature _

Inspector's License #_

3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

714/556-5867 • 714/556-5868 **Inspection Report TESTING ENGINEERS** INSPECTOR CODE 6/07 THOMT BUILD PERMIT NUMBER / DSA / OSHPD APP. FILE# JCR CHASS BULDING GENERAL CONTRACTOR AMAROSO CONSTRUCTION CO. WNG BEAUT ENGINEER SAILFUYBORWET FABRICATION SHOP COWELLO REQUIREMENTS: Limit of one job number, one permit number per sheet. Identify all work by type and SPECIFIC location. Non-compliant work must be specifically identified. Communication (RFI, Sketch, etc.) voiding previous non-compliant items must be listed, record conversations and communications with project designers, building and permit granting authority officials. **HOURS** TIME OUT TIME IN REGULAR 1.5X 4:30 PM 6:00 Expenses ☐ Show-Up Only □ Re-Inspection ☐ Reinforcement Concrete ☐ Concrete Placement ☐ Masonry ☐ ☐ Epoxy/DIA ____ Quality Control _____ Administration ____ Prestress/Post Tension ____ Qother Shop Fab. www. INSPECTION METHOD OF PLACEMENT: STARTED @: 6' OO AM | 1st TRUCK BATCHED: PROVIDED CONTINOUS VISIAL INSPECTION OF THE STATES OF SAP FARRICATION OPERATIONS AND QUALITY CONTROL BY MEANS OF MATERIAL FORMTRIATION TRACING VIA DIELE MARKE # AND CERTIFIED MILLTEST REPORT WEIDING DERFORMED DULY BY QUALIFIED & CERTIFIED DERAWS OIL AND MAINTAIN CERTIFICATIONS ON FILE. WEIDS VISUALLY ALLEPTARIE AND PER-MED DER STAMPED AND APPRILIED BY DSA. STRUCTURAL DRAWINGS DETAILS SHOP DERIVINGS & DIETAILS APPROVED FOR CONSTRUCTION, AWS OIL - DIELE MARKS COMPIETED ROOM HOZO RALIF 6 AFTEC I EIE MARKS IN DROKRESS WALRAIL STARTS & RAMPS! # 28A, #28 B #29A #29B #30A #30B, #31A LEMARUS IN DRUGIUSS FOR ROOF FRAMES: #137 A, # 1414, # 145A **SAMPLES** SUPPLIER: **TEMPERATURE** MEASURED SPECIMENS CUBIC YARDS DESIGN SLUMP ADMIXTURE DESIGN PSI TICKET # MIXED NO. AMB CONC. SLUMP Contains Does Not Contain Non-Compliant Items REPORT ☐ Additional Page (Page #) CM _ ☐ Reinspection of Certification of Compliance All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours minimum. If inspector is called to a project and no work is performed, a 2 hour minimum charge will be applied. I declare under penalty of perjury that all of the above statements are true, and that of my own personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans, specifications and all applicable codes Inspector's Name TFREWE Approved/Authorized by

Submitted by

04121221 AWS LWE



TESTING ENGINEERS

Inspection Report

1E31ING ENGI	NEEKS			 	ام در د.				
NSPECTOR CODE		JOB NUMBER	425		DATE (3/7/07	M	X W T	F S S
OB NAME	· (HOSS	RUNCOIN	<u>~</u>			MIT NUMBER / DSA	/ OSHPD APP. FILE#	# JURISD	ICTION
DDRESS	w.147m	CI	ONGBEAC	At	Am	OPUSO (ろうつかしい	TIUN W	
RCHITECT	NA- (A	ENGINEER	FURBOR	i i	SUBCONT	RACTOR (If Any)			
specifically identif	ied. Communica	b number, one per ation (RFI, Sketch, and permit granting	rmit number per s etc.) voiding pre	sheet. Ide vious nor	ntify all v	work by type and	SPECIFIC locat	ion, Non-compliant	work must be ommunications
		Ta pomit grammy		HOU	RS				
REGULA	R	1.5X		2)	X		TIME IN		IE OUT
8		<u> </u>			_	(!	10An	4:31	fm
Re-Inspection	١		☐ Show-Up (Only		<u> </u>	🗆 Expens	ses	
Reinforcemer	nt Concrete		Concrete Place	ement _			onry	_ Epoxy/DI	Α
Quality Contr	01 CMF [Administration	ı 🗆	Prestre	ss/Post	Tension		waw gate	ONG
•				INSPE					
STARTED @:	Lionam	1st TRUCK	BATCHED:		ME	THOD OF PLA	CEMENT:		
		GNTH	211 2118	JAL	TAIS	DECTION	OF ALL	SDA-66.5	OF
۱۱ <u>۰ (ط</u>	80	n opera	5000000		A. 100	ADA COA	5601 8	Ru in GAN	5 08
2 HOD FY	DECOT 10	WIKLAN	11102 5 A	NO IS	i J		0.0 - O .	the ATAM (E	COTEVED !
MAIRT	40 100	MINUM			<u> </u>	oco o		102 115	0.1
MILL T	ESTRA	ports. w	12/WINE	PRIC	7014	ven red .	HELDIFIE	1 COALCO	ALL CADALL
QNALI	FIED W	ernyle	WITH C	12/21	2 Or	J PILE ,	2 4	E D CA	ACCEPTABLE
AND PE	proper	EN PRR	214mb2	D AN	0 0	2000	NY F		STRUTURE
		ETMLED	, 2 Hab	OI _E	<u> </u>	APA 28	ICONY) (DIC CONST	POCITOR
AWS C	71.1 AND	AISC.				1. 0.	- + 1	٠	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
- p12	ue mal	us comp	hours t	ORLU	mu	14 LUM	MUTS &	comps. H	LB A, #28B, #
-PIEL	E MARI	r is pros	shiess how	C SAM	95:	#294,#3	4115,#301	5,7831A	
-PIEL	E MARI	R LOU MI	Aurri	SJAN.	<u>R#1</u>	MARSON	35 # 86F	1,87A.87 A	4,87AB, 87B
-DIEL	a marle	SINPRIGI	firer for	1400	FARA	MES! 413	17年11年1	4, # 140'A	
1		' '		SAM	PLES				
SUPPLIER:									
MIXED NO.	TICKET #	DESIGN SLUMP	MEASURED SLUMP	ADMIX	KTURE_	DESIGN PSI	CUBIC YARDS	SPECIMENS	TEMPERATURE AMB CONC.
								<i>)</i>	
		<u></u>				☐ Conta		Alexa C	Compliant Hom-
] Additional Pa	ige (Page #) (OM			REPO		Not Contain pection of	Non-C	Compliant Items
		on of Complianc		of my arre	All inspe	ctions based on minim	num of 4 hours for wo	ork performed over 4 hou ormed, a 2 hour minimum	urs = 8 hours minimum.
arennal knowledge th	ie work during the p	of the above statements period covered by this re lans, specifications and	report has been perfo	ormed and	If inspect	or is called to a projec	and no work is perfo	onneu, a 2 nour minimum	charge will be applied.
		HE WE TH			A	ved/Authorized	the M.	11/1//	1111111
	_	in In I	~		Appro	veu/Authonzet	i by My	(PROJECT SUPERINT	ENDENT)
nspector's Sigr	<i></i>	M 12 .00 !	A 15 C	<u> </u>	01	ittad by			U
nspector's Lice	ense # <u>#</u>	71461	TOWN COU	<u> </u>	Subm	itted by	<u> </u>		



Inspection Report

INSPECTOR CODE														
THOMT		JOB NUMBER	425			107		М	ŢŢĶ	Т 1	s	S		
JOB NAME CR	HASS R	SULLDINE		В	UILD PERMIT I	IUMBER / DS/	A / OSHPD AF	P. FILE#		JURISDIC	ION A	_ 7		
ADDRESS		CI	NG BEACH	-C A Gi	Anokoso Construction Co.									
ARCHITECT	DALY	ENGINEER	105/39678	' SI	UBCONTRACT	OR (If Any)								
REQUIREMENTS:	: Limit of one id	ob number, one per ation (RFI, Sketch,	mit number per s	heet. Iden	ntify all work	by type and	d SPECIFIC	Clocation	n. Non-cor	npliant w and com	ork mu: munica	st be tions		
with project design	ners, building a	and permit granting	authority officials.		<u> </u>									
REGULAF	3	1.5X		HOUR		1	TIME IN		1	TIME	OUT	1		
8		2				6:.	1 O _		4:	30 0	٧			
Re-Inspection	 		☐ Show-Up C	Only				xpense						
Reinforcemen	t Concrete		Concrete Place	ment	_	☐ Mas	onry		☐ Epc	xy/DIA				
		☐ Administration												
,				INSPEC				Ì	J.,(
STARTED @: (1st TRUCK E	BATCHED:		METHO	D OF PL	ACEMEN	 T:						
		TINOUS UT		rc 05/					SHW	C006	2 . (. 2			
-				-										
		O RNALLOTY									107 [<u>√√</u>		
TRAUNG	VIA) LECK MA	RUTE A	W) C	RETTE	<u>س دری)</u>	1	37 (0	12/019	}		504		
well, w	- DEKIS	DAMED B	y GERTIF	760 1	VAAV	<u> </u>	1 wer	DING	WOR	بهع	17CU	الكرونة		
weise	RSWA	H CERTIF	WOLLD 5	1001	nue.	Will	os co	mp 18	1740	PER:	37A~	per		
Ano Apr	proveo	STEW COULD	AL URALLIV	Jr C -	المملاك	DAZ.DAN	T War	7A 1 1	. ^^	~ 17A	100			
		•	,,,,,,,	<u> </u>	2 40 D D	cyw me	Phal	M 07	- Who	ヘシシン	יזעת	_		
whicha	CROW	engga cma	WED By	DSA	t. AL	ns 01.	LAI	SCL	<u>0065.</u>					
WASSUM - DIE	it my	engga cma	WED By	DSA	t. AL	ns 01.	LAI	SCL	<u>0065.</u>					
-DIE	to make	AM APPRO LL (J DP LI (J DP	ANERED OFFECT	DSA FOR A	MALIPA MALIPA AMÉ:	10 01. 20 84 43 0 8	I, AI	SC L FRAM	0065. M:#3	94, #	જા _ક	<u>Α</u> ίξ#		
-DIE	to make	AM APPRO LL (J DP LI (J DP	ANERED OFFECT	DSA FOR A	MALIPA MALIPA AMÉ:	10 01. 20 84 43 0 8	I, AI	SC L FRAM	0065. M:#3	94, #	જા _ક	<u>Α</u> ίξ#		
- PIEC	LE MARIE	ms in pro	2000 By. 2000 By. 2000 B	DSA FOR U FORFA FORFA	MALIRA MALIRA AMIC: ML RAZI	2001. 2008 4308 2008	RASS #12#	SCL FRAM BLA,	0065. M:#3	94, #	જા _ક	<u>Α</u> ίξ#		
- PIEC	LE MARI LE MARI LE MARI	ns coubs or in be or vo be	SWED BY. APTERED OFRECE GRESS FRECE FRE	DSA FOR	MALIPA MALIPA MIC: ML PARI ME B PA	430B 430B 57MR 16#2	1, AI 1, AI #1; # 1A, #2	SCL FRAM BLA,	0065. M:#7 #87A,	94, #	જા _ક	<u>Α</u> ίξ#		
- PIEC	LE MARI LE MARI LE MARI	ms in pro	SWED BY. APTERED OFRECE GRESS FRECE FRE	DSA FOR O FORTA ROLLA	MALIPA MALIPA MIC: ML PAI ME B PA F TRAM	430B 430B 57MR 16#2	1, AI 1, AI #1; # 1A, #2	SCL FRAM BLA,	0065. M:#7 #87A,	94, #	જા _ક	<u>Α</u> ίξ#		
- PIE	LE MARI LE MARI LE MARI	ns coubs or in be or vo be	SWED BY. APTERED OFRECE GRESS FRECE FRE	DSA FOR	MALIPA MALIPA MIC: ML PAI ME B PA F TRAM	430B 430B 57MR 16#2	1, AI 1, AI #1; # 1A, #2	SCL FRAM BLA,	0065. M:#7 #87A,	94, #	જા _ક	<u>Α</u> ίξ#		
- PIEC -	LE MARIE MARIE MARIE	ms in begg ms in beg ms in begg my whose	AVED BY. AVETED OFRECT OFRE	DSA FOR O FO	MALIPA MALIPA MALIPA MALIPA MES FIRAM LES	25 DI. 26 STAR - STAR - CTAR 65!#	#(# #(# # 1 # 2 137 A, #	SCL FRAM BLA, IB FLYIA	30ES. PU: #3 #87A,	487A	758,	#31A		
- PIE	LE MARI LE MARI LE MARI	ns coubs or in be or vo be	WED BY. APPERED OFFICE OFFI	DSA FOR O FORTA ROLLA	MALIPA MALIPA MALIPA MALIPA MES FIRAM LES	430B 430B 57MR 16#2	1, AI 1, AI #1; # 1A, #2	SCL FRAM BLA, IB FLYIA	0065. M:#7 #87A,	487A	27S, 4,48	#31A		
- PIEC -	LE MARIE MARIE MARIE	ms in begg ms in beg ms in begg my whose	AVED BY. AVETED OFRECT OFRE	DSA FOR O FO	MALIPA MALIPA MALIPA MALIPA MES FIRAM LES	25 DI. 26 STAR - STAR - CTAR 65!#	#(# #(# # 1 # 2 137 A, #	SCL FRAM BLA, IB FLYIA	30ES. PU: #3 #87A,	487A	758,	#31A		
- PIEC -	LE MARIE MARIE MARIE	ms in begg ms in beg ms in begg my whose	AVED BY. AVETED OFRECT OFRE	DSA FOR O FO	MALIPA MALIPA MALIPA MALIPA MES FIRAM LES	25 DI. 26 STAR - STAR - CTAR 65!#	#(# #(# # 1 # 2 137 A, #	SCL FRAM BLA, IB FLYIA	30ES. PU: #3 #87A,	487A	758,	#31A		
- PIEC -	LE MARIE MARIE MARIE	ms in begg ms in beg ms in begg my whose	AVED BY. AVETED OFRECT OFRE	DSA FOR O FO	MALIPA MALIPA MALIPA MALIPA MES FIRAM LES	43 0 B 43 0 B 574 R 16 # 2 65!#	# (# # 2 137 A, # 2	SCL FRAM BLA, IB FLYIA	30ES. PU: #3 #87A,	487A	758,	#31A		
- PIEC -	TICKET#	ms in begg ms in beg ms in begg my whose	MEASURED SLUMP	DSA FOR O FOR O FOR O SO O	MALIPA MALIPA MALIPA MALIPA MES FIRAM LES	SON #30B STAIR L #2 CS!#E	CUBIC Y	SCL FRAM BLA, B FILLIA ARDS	30ES. M'. # 7 #87A, A HIL	487A	PAR C	#3iA 7AB		
- OTE - DIE - DIE - DIE - DIE - DIE SUPPLIER: MIXED NO.	TICKET#	DESIGN SLUMP	MEASURED SLUMP	DSA FOR O FOR O FOR O SAMPI ADMIXTU	WALLEAM B PARE THAN ILES	SON. LLSTM H3 O B STM-R LC # 2 CS! # ESIGN PSI Conta R Does Reins	CUBIC Y	FLY I	50ES. AV: #37A, A #11	#87A #87A	EMPERAMB C	ATURE ONC.		
SUPPLIER: MIXED NO. Additional Page declare under penalty of present in knowledge the	TICKET # Certification of perjury that all cowork during the p	DESIGN SLUMP DESIGN SLUMP On of Compliance of the above statements eriod covered by this reg	MEASURED SLUMP	FOR OF FOR STATES SAMPI ADMIXTI	WALLRA MALLRA MALLRA MALLRA MALLRA FIRAN LES	#3 0 R #3 0 R STARR STARR STARR SIGN PSI Conta Does Reins	CUBIC Y	FLYIA ARDS ain	SPECIME	# 8 7 A # 8 7 A ENS T on-Cor	EMPER.	TAB ATURE ONC.		
SUPPLIER: MIXED NO. Additional Page declare under penalty dersonal knowledge the installed in compliance w	TICKET #	DESIGN SLUMP DESIGN SLUMP On of Compliance of the above statements eriod covered by this repans, specifications and all	MEASURED SLUMP MEASURED SLUMP are true, and that of port has been perform II applicable codes	FOR WASTAN RESTANCE SAMPI	WALLANDER BEPORT All inspections of the control of	SON. L STAR L STAR L T Z SSIGN PSI Conta Does Reins Dased on mininiled to a project	CUBIC Y	FLYIA ARDS ain	SPECIME	# 8 7 A # 8 7 A ENS T on-Cor	EMPER.	TAB ATURE ONC.		
SUPPLIER: MIXED NO. Additional Page declare under penalty dersonal knowledge the installed in compliance with the stalled in complex with the stalled in	TICKET # Certification of perjury that all of work during the print the approved plus to the print the	DESIGN SLUMP DESIGN SLUMP On of Compliance of the above statements eriod covered by this regars, specifications and all the statements are specifications.	MEASURED SLUMP MEASURED SLUMP are true, and that of port has been perform II applicable codes	FOR WASTAN RESTANCE SAMPI	WALLAND REPORT	SON. L STAR L STAR L T Z SSIGN PSI Conta Does Reins Dased on mininiled to a project	CUBIC Y	FLYIA ARDS ain	SPECIME	# 8 7 A # 8 7 A ENS T on-Cor	EMPER.	TAB ATURE ONC.		
SUPPLIER: MIXED NO. Additional Page declare under penalty ersonal knowledge the installed in compliance with inspector's Name inspector's Signal	TICKET # Certification work during the approved plant all a work during the part of the approved plant all a work during the part of the approved plant all a work during the part of the approved plant all a work during the approved	DESIGN SLUMP DESIGN SLUMP On of Compliance of the above statements eriod covered by this regars, specifications and all the statements are specifications.	MEASURED SLUMP MEASURED SLUMP MEASURED SLUMP	DSA FOR FOR SON SON SAMPI ADMIXTI	WALLANDER BEPORT All inspections of the control of	Conta Authorized	CUBIC Y	FLYIA ARDS ain	SPECIME	# 8 7 A # 8 7 A ENS T on-Cor	EMPER.	TAB ATURE ONC.		



Inspection Report

TESTING ENG	INEERS		ms	pecuc	ili nep	t						
INSPECTOR CODE	NT	JOB NUMBER	1425		DATE &	19/07	M	Т	w K	F	S	S
IOD MANE		Bures	·		BUILD PEF	MIT NUMBER / DSA	/ OSHPD APP. FILE:	#	JURIS	DICTIO 4 2	N	
ADDRESS	N 14th	.T.	LONG BEA	rett CA	GENERAL	CONTRACTOR CO	NETWOTE	N				
ARCHITECT	Once	ST. ENGINEER SAL	50 R000	KI	SUBCONT	RACTOR (If Any)	ABRICATIA.	NZH	90			
REQUIREMENT specifically ident	S: Limit of o ne jo ified. Communica	ob number, one pe ation (RFI, Sketch, nd permit granting	ermit number per s , etc.) voiding pre	sneet. Id vious no	entity all i	Nork hy type and	SPECIFIC IOCA	HOH. INC	on-comonar	nt work	k must unicati	be ons
				HOL	JRS							
REGUL	AR	1.5X		2	Х		TIME IN	- -		ME OL		
8		_ 2_		_		6:00	JAM_		4:3	<u>υρ</u>	<u>~</u> _	
☐ Re-Inspectio	n		☐ Show-Up (Only			DExpen	ses				
		□										
Quality Cont	rol Cwz	☐ Administration	n □	Prestre	ss/Post	Tension	Q Other	24	OPWE	بال	n	
					CTION				•			
STARTED @:	MACOS' 2	1st TRUCK	BATCHED:	_	ME	THOD OF PLA	ACEMENT:					
		J. WOUL	MEUNE	TV5/	DECTI	ON OF A	-LC 5746	SES.	OF SI	206)	
I. KENDIN	E AND F	73 P1477	AN ODERA	2100	CAS	WELLAS	ONALIT	n Co	word	\mathcal{I}	4.4	
W) Contraction	<u>vy 17-00 12-</u>	RIM FOR	ENDE (AT	700	72A	1 AN 11 A	- 005 US	AMI	SUC-FF	A	M	
MEANI	CA MIL	LTGST PG	50 113 1011	میرادها میرادها	1 M . A	K. 05 P.F.	ilmen	R.,	CERT	75	BN	
A A	$C \cap A \cap A$	C/62, L/	700H)3.			06 A.M	MA . 1574	- 0) (COURT A	·	EU.	េ
* GNAN	wien p	ER AWS	UIL WE	COCA		OK AMD	1.417 (0.)4)	2.40	20 1 1 1 1	~~	1.00	
MEND? (Musica	ACLEPTAS	LE AMO	comp	العات	prese si	WY CAGINAL	o whi	pico sp	<u> </u>	<u>veju</u>	CTC.
Dimne	s And Dizt	TANKS SAK	to blomme	i vi bi	MVE	A20 CX (· AW? DI	. 1 0	one ven	<u>() </u>	1-5	<u> </u>
- P18	us maple	c comple	TED FOR	WAU	(24	LSMRA	<u>5 #3072</u>	<u> </u>	16.5			
-p18	it mall	s in buse	NESS FOR	2247	C#8 (2m C#20	4-30R'1	9 17,	198			
		es Complé						+,++ 6	BARA			
p,&	IF MARL	us inprov					,					
- P18	EER MAR	w wpro	LARRESS FOR	2 Po	offre	tmES#: #	137 A, #	141	A #1	<u>45</u>	4	
_		•		SAM	IPLES		•		1			
SUPPLIER:				-	-				· · · · · ·			
MIXED NO.	TICKET #	DESIGN SLUMP	MEASURED	ADMI	XTURE	DESIGN PSI	CUBIC YARDS	SP	PECIMENS		MPERA MB CC	
WINED NO.	TIONET	DEGIGIT GEGINI	SLUMP					 -		1 4	ID OC	/110.
										+-		
	··· · · · · - · -	-			_			1		+-		
					1	☐ Conta	ins	<u> </u>	 			
Additional Pa	age (Page #) (OM			REPO	RT 🔁 Does	Not Contain pection of		Non-0	Comp	liant l	tem:
		on of Compliand		of my own	All inspec	ctions based on minim	num of 4 hours for wo	rk perform	med over 4 ho	urs = 8	hours m	inimum annlier
personal knowledge tl	ne work during the p	of the above statements beriod covered by this relations and	report has been perfoi	rmed and	ıı ınspect	or is called to a projec	сани но work is репо	meu, a 2	L NOUT THIRTIENUN	ronary	, will De	whhue
Inspector's Nar	\ \	uler			Appro	ved/Authorized	i by	and the	1/1/6	بررو	ربريو	متعد
Inspector's Sig	· · · · · · · · · · · · · · · · · · ·	ERRIUS	Domeson	<i>3</i>	,,,,,,,,,	. 54,, 141,1011200	, , , , ,	(PROJE	CTSUPERINT	ENDE	VT)	0
Inspector's Lice	,	oyrary	AWS CHE		Subm	itted by						
						-						



Inspection Report

TESTING ENG	INEERS		1119	hacııı	ווט חפן	JULL							
INSPECTOR CODE		JOB NUMBER	1425		DATE	8/10/0) M	T W	T	۶ ۶	SS		
JOB NAME		BUILDING	1-1-3-		BUILD PE	RMIT NUMBER / DSA	/ OSHPD APP. FILE#	l <u></u>	JURISE	OICTION A			
ADDRESS		C	DITY	.14.1.4	GENERAL CONTRACTOR								
ARCHITECT	W. 14T	ENGINEER	LAMO BEAC	,	SUBCONTRACTOR (If Any)								
REQUIREMENT	S: Limit of one is	ob number, one pe	rmit number per	sheet. Ic	lentify all	work by type and	SPECIFIC locati	ion. Non-co	mplian	t work m	ust be		
specifically ident	ified. Communic	ation (RFI, Sketch, and permit granting	etc.) voiding pre	vious no	on-complia	ant items must be	e listed, record co	nversations	and c	ommunic	ations		
That project door			-		URS								
REGUL	AR	1.5X			2X		TIME IN		TIM	IE OUT			
8						6:0	<u> </u>		<u> 136</u>	mgc			
☐ Re-Inspectio	n		☐ Show-Up	Only				ses					
 □ Reinforceme	nt Concrete		Concrete Place	ement		□ Maso	onrv	□ Ep	oxv/D	IA			
⊒ Neililoiteille Zi Ouality Cont	rol Circle _	☐ Administration	n	Prestre	ess/Post	Tension	Other \	CHOO F	TABP.	MATIV.	NWE		
a Quality Cont	101	Administration	'		ECTION	101101011	42,041010	, ,, ,,, ,		•			
				MOPE		THOD 05.51	OFMENT						
STARTED @:	<u>-</u> _					THOD OF PLA							
I) Pro	MOED G	ו בטסמהמ	1 ISUAL]	721	ELA	WOFA	nl (746 ES	OFS	100	FARRU	WATEN		
WELDIN	6 appert	MA 2 LOF	o Quaris	M C	mino	UL BY ME	ANS OF M	MERI	ge I	COENT	IF UT		
TRACING	الأنم ال	ELE MARI	C#F MM (CERT	15E0	MILLTES	T REPORT	3. WE	LON	6 0/2/	Garner		
R. (5)	1200	Mr. D ONE	4960 B.	Auc	01.1	(WEIM) NE	INDE ANN	0 WW	~~~	NCE	RTS		
09 001		100 -00	<u> </u>	2-40	0	V- V-0	Caller E C A		~~~~	1000	2.40		
0071	E. WE	LOS USA	muy acc	CO TOPH	OUR E	my ber	ADEMIED P	1787C J	,	pro	''' ')		
, ,	_	river De	-			•	mines A	phrone	OF	<u>4K</u>			
		SA. , AUS											
- DIELE	markett	S IN PROFI	russ fire	1M2	14B	RAIL: #1	9 4,#19B	, 7201	^	<u> ₹25B</u>			
T DIELE	MARK #	5 Comple	TED FOR	WALL	R465	TMR#1:#	86A, #87	BA					
LOBECT	EMARLES	in proc	THESS FOR	2 SAN	NE =	-87 AA							
* DIVI	MARLES	FOR ROEF F	Ames (a	WEIET	in of	Rown H	wever 2	قعاردان	u /	2) DIA	NS		
12000		ress ocie								- 4			
)9()9(0	1000 - 11131	1923 0010	15 Treop oc			73-0 · 4-00 G		, , , , , , ,	*** F ***	· · · · · · ·	<u>., ., ., ., .</u>		
				SAIV	/IPLES								
SUPPLIER:			MEAGURES	1			<u> </u>	<u> </u>		TEMPE	RATURE		
MIXED NO.	TICKET #	DESIGN SLUMP	MEASUREDSLUMP	ADMI	XTURE	DESIGN PSI	CUBIC YARDS	SPECIM	ENS	AMB			
							÷			<u>L</u> .			
			. <u>.</u>			☐ Conta		<u> </u>					
☐ Additional Pa					REPO		Not Contain pection of		Non-C	Compliar	it Items		
doolare under see-la		on of Complianc		f my owo	All insper	ctions based on minim	um of 4 hours for work and no work is perforr	k performed ov	er 4 hou	rs = 8 hours	minimum.		
ersonal knowledge tr	ne work during the p	of the above statements period covered by this re- lans, specifications and	eport has been perfor		n inspect	or is called to a project	and no work is perfor	meu, a z Rouf l		onarge will	se appired.		
•			bmpsw				TIM.	ا/المده	//		N		
nspector's Nar	•	, , n	Fud 2000	-	Appro	ved/Authorized	Dy Agen	PROJECT SU	PERINTI	ENDENT)	ray		
nspector's Sig	nature	- uning	<u> </u>				/						
Inspector's Lice	ense # <u>01</u>	11VVI	ANS CU	E_	Subm	itted by				-			





950377 REPORT

Date:

July 3, 2007

Report distribution package of Field Inspection Reports and/or Laboratory results on materials tested.

Job Name:

UCR Chass BUilding

Job Address:

3615 – A Canyon Crest Drive

City:

Riverside, CA

Client Name:

S.J. Amoroso Construction

You are receiving these reports at the request of our client. If you are not the correct recipient or wish to discontinue to receipt, please contact Denise DeGroff at 714/556-5867.



INSPECTOR CODE		JOB NUMBER	05-1425	DATE 6 -	-11-07		M T	W T F S S
JOB NAME ().	River 20.	`~= C/	Hass 12 111.	BUILDING / O	SHPD PERMIT # /-Q	SA-APP#		DSA-FILE #
ADDRESS 2010 Can	11100.03	<u>De</u>	Mass Building CITY 12: vinside	GENERAL CO	NTRACTOR	0		JURISDICTION
ARCHITECT 3	yon cae	ENGINEER	16. vinside	SUBCONTRAC	Andall	12050		
DECLUDEMENTS: Limit	of one job nu	SAIF	ormit number per shoot to	tontify all wo	chandall	S SE	E/	n-compliant work must be
	mmunication	(RFI, Sketch	n, etc.) voiding previous no					tions and communications
			НО	URS				
REGULAR	1.5	X	2X	TIN	1E IN	LUI	VCH	TIME OUT
4				7 . 0	00			10:00
☐ Re-Inspection			Show-Up Only _			_	enses	
☐ Shop	☐ Field _		🗆 Welding		Bolting		_ 🗆 Sa	mpling
☐ Fireproofing		NDT (HRS						
CONTI	NUATION SHI	EETS AND S	INSPECTED, JOB PROG KETCHES IF NEEDED.)	energiani Parkan Askora dan				
<u> ARRI</u>	veD	AT	Jobsite A	LT CO.	gracton	<u>s /2</u> e	QUEST	- Subcontaggion
1-ailE	2 FO	Show	v P.		-			
					-			
				 .				
				ean II	医马克耳耳耳耳耳耳			
					أفساستا للسبا			
			Com.	,				
				•				
								
WELDER		CERTIFICA	TION / EXPIRATION DATE		WELDER		CERTIFIC	CATION / EXPIRATION DATE
								
Electrode Used:					 			
☐ Additional Page (Pa	ae #) CM			REPORT	☐ Contains			Non-Compliant Items
	tification of				Ø Does No	t Contain		
I declare under penalty of perjung personal knowledge the work du installed in compliance with the ap	that all of the all	bove statement overed by this r	s are true, and that of my own report has been performed and					ed over 4 hours = 8 hours minimum. our minimum charge will be applied.
Inspector's Name	bon B	MOFE	га Т	Approved	/Authorized b	y	(PROJECT	UPERINTENDENT
Inspector's Signature≤							(1.1.0000)	os. cimitendelini)
Inspector's License # 1/51-85 Submitted by								



INSPECTOR CODE	JOB NUMBE	05-1425	DATE (2	-/3-07	M T W	TFSS				
JOB NAME (). C	Riversine (HASS Building		HPD PERMIT # / DSA-APP #	, [-	DSA-FILE #				
3615 C	ANYON CREST	CITY Rivenside		noroso		JURISDICTION				
ARCHITECT LEO DAIY	ENGINEER	1 - 1300QUET	SUBCONTRACTOR (If Any) MAS ERON							
REQUIREMENTS: Limit	of one job number, one pommunication (RFI, Sketo	permit number per sheet. Ic th, etc.) voiding previous no		by type and SPECIFIC	location. Non-co					
· · - · · · · · · · · · · · · · · · · ·	,		URS		· · · · · · · · · · · · · · · · · · ·					
REGULAR	1.5X	2X	TIM	E IN L	UNCH	TIME OUT				
			7.0	0		10:45				
Re-Inspection		_ □ Show-Up Only _		🗆 E:	rpenses					
•		Ø-Welding		Bolting	🗆 Samp	oling				
☐ Fireproofing		S)								
REPORT: (INCLU-	IDE LOCATION OF WOR NUATION SHEETS AND	K INSPECTED, JÖB PROG SKETCHES IF NEEDED.)	RESS AND N	OTE ANY WORK REJEC	TED OR JOB PE	OBLEMS#ATTACH				
		VELDING OF								
OF Alumi.	num PANGL	Connections AS	PER D	ETails A.B 0	~ A- 364	AT The				
		2Th Building								
		millER TRai								
		WEIDER ALAM								
	· ·									
_ /		eD Completed L		•	'	1003 HAD				
Found NU V	13041 Ottee15	All WORK	13 6	mplele.						
										
				• • • • • • • • • • • • • • • • • • • •						
		1	4	السعادية حال الما						
	-	The state of the s	<u> </u>	- 5.2 NA-1						
WELDED	OFFICIO	ATION / EVENDATION DATE		WELDED	OFFICIOATI	ON / EVENETION DATE				
WELDER		ATION / EXPIRATION DATE		WELDER	CERTIFICATI	ON / EXPIRATION DATE				
Junior ALAmi	11A AWS 1	000 /								
Electrode Used: 07	7 11/2 232		<u> </u>							
				☐ Contains						
Additional Page (Pa			REPORT	Does Not Conta	in	Non-Compliant Items				
Ce I declare under penalty of perjury personal knowledge the work du installed in compliance with the ag	ring the period covered by this	nts are true, and that of my own report has been performed and				ver 4 hours = 8 hours minimum. ninimum charge will be applied.				
Inspector's Name	1	• •	Approved	Authorized by	124					
Inspector's Signature_		_		<i>-</i>	(PBO JECT SU					
	2				(1110020100	PERINTENDENT)				



INSPECTOR CODE	JOB NUMBE	05-1425	DATE 6 -/	5-07	N	' T	W T	/ s	S
JOB NAME () (P:			BUILDING / OSH	IPD PERMIT#/	DSA-APP #		DSA-FIL	E#	
ADDRESS (1/- (verside CHA	CITY	GENERAL CON		JURISDICTION				
ARCHITECT	ENGINEER		AMAROSO 0						
REQUIREMENTS: Limit	of one job number, one j	1 - 13 ou a o eT permit number per sheet. Ic	dentify all work	by type and	SPECIFIC IO	cation. Nor	n-compliant	work mus	t be
specifically identified. Con with project designers, bu		ch, etc.) voiding previous no	on-compliant it	ems must be	listed, record	conversat	tions and co	mmunicat	ions
		HU	URS				-		
REGULAR	1.5X	2X	TIME	E IN	LUN	СН	Т	ME OUT	1
4			7:3	0			11:0	20	
☐ Re-Inspection		□ Show-Up Only				enses		_	
☐ Shop	⊊ Field	ŊWelding		Bolting		_	mpling		
☐ Fireproofing	_	_							
DBSERVED VENEER SUE 23 Line B NR 232 E PRocedures	Field welding PORTS AS P. BETWEEN PX FillER metal- AND TEChni	SKETCHES IF NEEDED) 6 OF SPIICE F ER DETAIL 3 AND LX. USIN 0135ERVED W BUCS. VERIFIED DEFECTS. W	Plates For an S- an Mill Elder For Comple	R Locker 703 on 16 m 13 m 12 mil Too Wif	n the 1 640 D 14 FOR	E SPli YORTH iesel L PROS 5.Ze	Buildi Buildi Init wi pon wel	BRUCK ine A; ith o dinc	7
WELDER	CERTIEICA	ATION / EXPIRATION DATE		WELDER		CERTIFIC	ATION / EXP	IRATION F	DATE
1	0.6			VVLLUEN		OLD HEIO	ATION / EAP		701E
Junion Alami	11A 17WS	10007							
	1 2 2 2			·					
Electrode Used: . 07	12 MR 23	2		- Contain					
☐ Additional Page (Pag	ge #) CM		REPORT	☐ Contair ☐ Qoes N	ns Iot Contain		Non-Co	mpliant I	tems
Cer I declare under penalty of perjury personal knowledge the work duri installed in compliance with the app Inspector's Name	ng the period covered by this proved plans, specifications and	nts are true, and that of my own report has been performed and d all applicable codes		lled to a project a	m of 4 hours for vand no work is per	formed, a 2 ho		arge will be a	
Inspector's Signature _						(FROJECT	SUCCHINIEN	DENI)	
Inspector's License #/_	151-86	<u>.</u>	Submitted by						



INSPECTOR CODE	,	JOB NUMBER	05-1425	DATE 6-18-07	~ <i>^</i>	۳	W T F S S	
JOB NAME (). C	Pivrosi	~ C					DSA-FILE #	
ADDRESS 7/16 (40/1011 6 0		HASS Building CITY Riverside -1 - BOUQUET	GENERAL CONTRACTOR		-	JURISDICTION	
ARCHITECT ,	TIVYON CICI	ENGINEER	KINNGIDE	SUBCONTRACTOR (If Any)	AMAROSO SUBCONTRACTOR (If Any)			
LED DAI	<u>'y</u>	<u>Sn:F</u>	Ul - BOURUET	MAS -				
REQUIREMENTS: LIMI	t of one job nun communication (nber, one p (RFI, Sketch	ermit number per sneet. h, etc.) voiding previous i	Identify all work by type and non-compliant items must be	d SPECIFIC 10 be listed, record	cation. Non- d conversation	-compliant work must be ons and communications	
			Н	OURS .				
REGULAR	1.5>	Κ	2X	TIME IN	LUN	ICH	TIME OUT	
88				1.00	<u> </u>		12:15	
Re-Inspection			_ □ Show-Up Only _			enses		
☐ Shop	_ 121Field _		& Welding	Bolting		_ 🗆 San	npling	
☐ Fireproofing		VDT (HRS	S)					
				PIATES FOR				
				- DETAILS ON S				
				18.5 USING				
WiTh 1779				Irn chiel Nat She	on or c	insil 1	11.45 ALL	
			METAL, WELL					
Welds on SP	lice pla	ares h	VERE RESECTE	DUERPIPING	6 PORO.			
Nelds on SP	lice pla	ares h	VERE RESECTE	DUERPipine	6 PORO.			
Welds on SP	lice pla	ares h	VERE RESECTE	DUERPipine	6 PORO.			
Welds on SP	lice pla	ares h	VERE RESECTE	DUERPipine	6 PORO.			
Welds on SP	lice pla	ites h	VERE RESECTE	DUEROPIPING OS ON FILE	6 PORO.	5.77		
Welds on SP and Poor Te	lier pla	ites h	VERE RESECTED If have PHOT TION/EXPIRATION DATE	DUEROPIPING OS ON FILE	6 PORO.	5.77	Lack of Fusion	
WELDER Junior Alam	illa 1	CERTIFICA	TION/EXPIRATION DATE	DUEROPIPING OS ON FILE	6 PORO.	5.77	Lack of Fusion	
WELDER Junior Alama Electrode Used: Liv	illa I	CERTIFICA 4 W 5	TION/EXPIRATION DATE	WELDER	G PORO	5.77	Lack of Fusion	
WELDER Junioiz Alama Electrode Used: Lin Additional Page (Paddeclare under penalty of perju	ACCOME (See Accomplete to the see Accomplete to the see Accomplete to the abouting the period covapproved plans, specification, specification	CERTIFICA Aug Compliance Co	TION / EXPIRATION DATE / - 0 a 7 . U 7 2 N/2 23 2 Ce ts are true, and that of my own report has been performed and all applicable codes	WELDER REPORT Contain Does If Inspections based on minimum If inspector is called to a project	ins Not Contain num of 4 hours for vit and no work is per	CERTIFICA	ATION / EXPIRATION DATE	
WELDER Junior Alam Electrode Used: Liv Additional Page (Padeclare under penalty of perjuersonal knowledge the work distalled in compliance with the a	ich Niau & Sch Ni	CERTIFICA GAS Compliance Co	TION / EXPIRATION DATE / - 0 a 7 . U 7 2 N/2 23 2 Ce ts are true, and that of my own report has been performed and all applicable codes	WELDER REPORT Contai All inspections based on minim If inspector is called to a project	ins Not Contain num of 4 hours for vit and no work is per	CERTIFICA work performed rformed, a 2 hou	ATION / EXPIRATION DATE Non-Compliant Items	
WELDER WELDER Junior Alam Electrode Used: Lin Additional Page (Padeclare under penalty of perjuersonal knowledge the work distalled in compliance with the anspector's Name	illa plans, spen	CERTIFICA CERTIFICA COmpliance Cove statement vered by this incifications and MOFFA	TION / EXPIRATION DATE / - 0 a 7 Ce ts are true, and that of my own report has been performed and all applicable codes	WELDER REPORT Contain Does If Inspections based on minimum If inspector is called to a project	ins Not Contain num of 4 hours for vit and no work is per	CERTIFICA work performed rformed, a 2 hou	Non-Compliant Items I over 4 hours = 8 hours minimum. ur minimum charge will be applied.	



INSPECTOR CODE	JOB NUMBER	5-1425	DATE 6-19-07	M	w	TFSS				
JOB NAME / / Pina			BUILDING / OSHPD PERMIT	DSA-FILE #						
ADDRESS ARCHITECT LEO DAly	CAMS	CITY D	GENERAL CONTRACTOR			JURISDICTION				
<u> 56/5 CANY</u> ABCHITECT	ON CICESI ENGINEER	Kivenside	SUBCONTRACTOR (If Any)							
LEO DAly	SAIFUL	- BOOQUET	MAS	IRON						
REQUIREMENTS: Limit of specifically identified. Com- with project designers, built	one job number, one pe munication (RFI, Sketch	ermit number per sheet. Ic , etc.) voiding previous no	dentify all work by type an on-compliant items must b	d SPECIFIC loo be listed, record	cation. Non-conversation	compliant work must be ns and communications				
		НО	URS							
REGULAR	1.5X	2X	TIME IN	LUN	CH	TIME OUT				
9			1:00			10:30				
Re-Inspection		☐ Show-Up Only _			nses					
☐ Shop	ol√Field	Ø Welding	Bolting _		_ □ Sam	pling				
☐ Fireproofing	🗆 NDT (HRS)								
CONTROL OF THE PARTY OF THE PAR	to the second of	INSPECTED, JOB PROG KETCHES IF NEEDED:)	RESS AND NOTE ANY W	ORK REJECTE	DORJOB P	ROBLEMS: ATTACH				
OBSERVE	> Field W	ElDinb OF SI	Plice PLATES	FOR And	16 Lec	GER SPICE				
AT Brick V	ENEER SUPP	ORTS ON 2ad	LEVEL AT	WORTH 1	Buildie	GAT GRID				
Lines R	BETWEEL 12	ANDITUSi.	ne miller	Bi640	Diesel	Unit with				
,072 N/R 2	32 FillER M	ETAL. DIBSERVE	O WELLEN ALA	milla Fo	R PROP	or welding				
PROCECURE	And TEChni	QUES . VERIFIC	O COMPLETED	WEIds Fa	n 512	c, Length,				
0000,778.7	775 1610 /-	10100 J DF	5-703 W	Uiche i	Compi	<u>د، ح، ع، ع</u>				
			A							
WELDER	CERTIFICAT	TION / EXPIRATION DATE	WELDER		CERTIFICA	ΓΙΟΝ / EXPIRATION DATE				
Junior Alamil	IA AWS #	10007								
Electrode Used: Linco	In Electric	072 NR 232								
Additional Page (Page	e #) CM		REPORT ☐ Conta	ains Not Contain		Non-Compliant Item				
declare under penalty of perjury the ersonal knowledge the work during installed in compliance with the appropriate the compliance with the appropriate the compliance with the appropriate the complex of the complex o	the period covered by this roved plans, specifications and	s are true, and that of my own eport has been performed and all applicable codes				over 4 hours = 8 hours minimum r minimum charge will be applie				
nspector's Name <u>Kob</u>	N. B MOFFAI		Approved/Authorize	d by fft the	VEROUPOT S	UPERINTENDENT)				
nspector's Signature					y 10340113	OF EMINTENDENT)				
nspector's License # //	51-85		Submitted by							



INSPECTOR CODE	JOB NUMBER 05-1425	DATE 6-20-07	МТ	W T F S S
JOB NAME / / C / Riving		BUILDING / OSHPD PERMIT # / DSA-	APP#	DSA-FILE #
ADDRESS / 15 C	CSIDE CHASS Building CITY CITY ENGINEER	GENERAL CONTRACTOR	2 - 5 -	JURISDICTION
ARCHITECT,	ENGINEER ENGINEER	SUBCONTRACTOR (If Any)		
BEOLIBEMENTS: Limit of one	e job number, one permit number per sheet.		I/20N CIFIC location, No.	n-compliant work must be
specifically identified. Commun	nication (RFI, Sketch, etc.) voiding previous r g and permit granting authority officials.	non-compliant items must be liste	ed; record conversa	tions and communications
	НС	OURS		
REGULAR	1.5X 2X	TIME IN	LUNCH	TIME OUT
4		7:00		8:30
☑ Re-Inspection	☐ Show-Up Only		☐ Expenses	
☐ Shop [2/2]	Field			mpling
☐ Fireproofing		-		
CONTINUAT	OCATION OF WORK INSPECTED, JOB PROF ION SHEETS AND SKETCHES IF NEEDED.)	The second secon		
	T Visual Inspectio			-
-	ctions AT Brick VENER			
	S PX BETWEEN 23 AN			
	ingo Wolds FOR SIZE RK IS COMPLETED ON T			
WELDER	CERTIFICATION / EXPIRATION DATE	WELDER	CERTIFIC	CATION / EXPIRATION DATE
Junior Alamilli	A AWS # 10007		-	
		<u></u>		
Electrode Used:				
	СМ	REPORT Contains Does Not 0	Contain	
declare under penalty of perjury that all				Non-Compliant Items
stalled in compliance with the approved	tion of Compliance If of the above statements are true, and that of my own e period covered by this report has been performed and plans, specifications and all applicable codes	All inspections based on minimum of		ed over 4 hours = 8 hours minimum.
istalled in compliance with the approved	Il of the above statements are true, and that of my own period covered by this report has been performed and plans, specifications and all applicable codes	All inspections based on minimum of		ed over 4 hours = 8 hours minimum.
	Il of the above statements are true, and that of my own period covered by this report has been performed and plans, specifications and all applicable codes	All inspections based on minimum of if inspector is called to a project and no	o work is performed, a 2 h	ed over 4 hours = 8 hours minimum. our minimum charge will be applied.





PEPONTS

Date:

July 16, 2007

Report distribution package of Field Inspection Reports and/or Laboratory results on materials tested.

Job Name:

UCR Chass Bldg.

Job Address:

3615-A Canyon Crest Drive

City:

Riverside, CA

Client Name: S.J. Amoroso

You are receiving these reports at the request of our client. If you are not the correct recipient or wish to discontinue to receipt, please contact Chris Santagata at 714/556-5867.



INSPECTOR CODE	JOB NUMBER	05-1425	DATE 6 -1	12-07	М	TW	T F S	SS	
JOB NAME U. C	Pivensine C	HASS Building	BUILDING / OSI	HPD PERMIT # / DSA-A	PP #		DSA-FILE #		
ADDRESS 36 15 CAN	CHOCK CREET	CITY Riversion	GENERAL CON	TRACTOR AMAROSO			JURISDICTION		
ARCHITECT	ENGINEER SAIL	F / 12	SUBCONTRACT	OB (If Any)		,			
REQUIREMENTS: Limit	of one job number, one p	permit number per sheet. Id	dentify all work	MASS IRON by type and SPEC	CIFIC location	n. Non-coi	mpliant work m	ust be	
specifically identified. Co with project designers, b	mmunication (RFI, Sketc	h, etc.) voiding previous no	on-compliant it	ems must be listed	I, record con	versations	and communic	cations	
		<u></u>	URS						
REGULAR	1.5X	2X	TIME	E IN	LUNCH		TIME OU		
4			7:0	0			10:19		
☐ Re-Inspection		_ □ Show-Up Only] Expense	es			
		🔀 Welding			- :		ing		
☐ Fireproofing				· J			g _ <u></u>		
	•	K INSPECTED, JOB PROG						5.7×3	
CONTI	NUATION SHEETS AND	K INSPECTED, JOB PROG SKETCHES IF NEEDED.)	HESS AND INC	AE ANY WORK H	SJECTEDIO	JUB PRO	JBLENG, ALIA	Cn Signal	
							i similar (i.e.)		
ARRIVED	AT CONTRO	actor's REQUEST	- Sub e	ONTRACTOR /	arrive		XTE.		
Job was	CANCELLED	actor's Request Due to weld	ER NOT	Bains 0	Rual: Fie	OAN	0 NOT		
									
							-		
						<u> </u>			
					·				
									
 									
									
						-			
WELDED	OFFICE	ATION A EVENDATION DATE		WELDED					
WELDER	CERTIFICA	ATION / EXPIRATION DATE		WELDER	- CE		ON / EXPIRATION	N DATE	
			<u> </u>						
Electrode Used:									
☐ Additional Page (Pa	ıge #) CM		REPORT	☐ Contains ☑ Does Not C	ontain	١	lon-Compliar	nt Items	
Ce	rtification of Complian		All 1						
I declare under penalty of perjur personal knowledge the work du	y that all of the above statemer	nts are true, and that of my own		based on minimum of 4 alled to a project and no					
installed in compliance with the a	pproved plans, specifications an	d all applicable codes			D	1			
Inspector's Name K	Ibent B moffai	<u></u>	Approved/	Authorized by_	1	حلم			
Inspector's Signature					(P	HOJECT Y SUF	PERINTENDENT)	-	
Inspector's License #	1/51-85		Submitted	by			-		



RECEIVED REPORT
Design & Construction
U.C. Riverside

MAY 0 3 2007

Date:

April 24, 2007

Report distribution package of Field Inspection Reports and/or Laboratory results on materials tested.

Job Name:

UCR Chass Building

Job Address:

3615 A Canyon Crest Drive

City:

Riverside, CA

Client Name:

SJ Amoroso Construction Co.

You are receiving these reports at the request of our client. If you are not the correct recipient or wish to discontinue to receipt, please contact Denise DeGroff at 714/556-5867.



3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 ● 714/556-5868

Inspection Report

INSPECTOR CODE		JOB NUMBER	05-14	25	DATE	Ja	nuary 29,	2007	M X	TW	TF	SS
JOB NAME Universi	University of California of Riverside C.H.A.S.S. BUILD PERMIT NUMBER / DSA / OSHPD APP FILE# Riverside							rside				
IADDRESS	anyon Crest Dr.	**	CITY Riversid	e	GENER	AL CONT	RACTOR	S.J. Amoroso				
ARCHITECT Leo [Daily	ENGINEER Sa	aiful/Bouquet		SUBCO	NTRACT	OR (If Any)	KRETSCHMAR	1			
REQUIREMENTS: identified. Commu building and permit	nication (RFI Sko	number one permit etch, etc.) voiding pr ty officials.	number per s evious non-co	mpliant items r	must be	by type a listed. Re	nd SPECI ecord conv	FIC location. No versations and co	n-com; ommun	oliant work ications wit	must be s h project	specifically designers,
REGUL	<u>ль</u>	1.5X			URS 2X			TIME IN			IME OUT	 1
8		1.07				_		7:00 AM			:00 PM	
			☐ Show	-Up Only				Ехре	enses			
Reinforcemer	nt Concrete	☐ Cc	oncrete Placen	nent		X Ma	asonry		einforc	ement Mas	onry	
Quality Contro	ol			Prestress		_		文 Othe	r	E	POXY	
_				INSPE	ECTIC	N						
STARTED @:		1st TRUCK BATC	HED:				PLACEM	IENT:				·
OBSERVAT	ION OF PLACII	NG 6" C.M.U.'s @	PERIMETER	R OF NORTH	BUILD	ING RO	OF 1RST	COURSE, US	ED OI	RCO PRE	BLENDE	ΞD
TYPE S MO	RTAR, MIXED	IN GAS POWERE	D DRUM MIX	KER. IN PRO	CESS (OF PLAC	CING 2NI	COURSE.				
		#5 VERTICAL D							X.7-23	, DRILLE	O 3/4"	
DIAMETER	X5" EMBEDME	NT, CLEANED HO	DLES OUT W	VITH GAS PO	WERE	D BLOV	VER & N	/LON BRUSH.				
					•							
	•			٠, ,								
		·		 								

			··.		***							
												
				SAM	PLES	 }		•				
SUPPLIER:			<u>.</u>									
MIXED NO	TICKET#	DESIGN SLUMP	MEASUREL SLUMP	ADMIX	TURE	DESI	GN PSI	CUBIC YARDS	SI	PECIMENS		RATURE CONC.
									4-			
	······································									····		
L					T	L			Щ			
Additional Pag	je (Page #) CM	 			REP	ORT 🖂	Contair Does N	ns lot Contain		No	on-Compl	iant Items
	Certific	ation of Compliance			All ine	pections ha	sed on minin	num of 4 hours for wo	rk perfor	med over 4 hr	ours = 8 hour	rs minimum
knowledge the work du	ring the period cove	ne above statements are fred by this report has to ons and all applicable cod	peen performed a					and no work is perf				
Inspectors Name _		GORDON LE	WIS		Аррг	oved Aut	thorized by		<u>ک</u> '	1		
Inspectors Signatur	e Disc	don J	euis						(PROJE	CT SUPERINTE	NDENT)	
Inspectors License	#	5009669	-84		Subr	nitted by			1	3, 5		مانط مانط
		- 300000		ACCO	UNTING	•			1		, 41	



TESTING ENGINEERS

3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

Inspection Report

INSPECTOR CODE		JOB NUMBER	05-1425	10000	DATE	January 30,		M T W	F S S		
JOB NAME University	of California of R	riverside C.H	.A.S.S.		BUILD PERMIT NUMBER / DSA / OSHPD APP FILE# Riverside						
ADDRESS 3615 Can	yon Crest Dr.		CITY Riverside			AL CONTRACTOR	S.J. Amoroso				
ARCHITECT Leo Da			iful/Bouquet			NTRACTOR (If Any)	KKE I SCHMAR /				
REQUIREMENTS: identified. Communi building and permit g	cation (RFI Sketo	th, etc.) voiding pre	number per shee evious non-comp	liant items m	nust be li	y type and SPEC sted. Record con	FIC location. Non-control of the control of the con	compliant work nunications with	nust be specifically project designers,		
		4.50			URS x		TIME IN	T1	ME OUT		
REGULA 8	K	1.5X			·		7:00 AM		00 PM		
			Show-Ur	o Only			Expens	es			
Reinforcement	Concrete	ПСо	ncrete Placemer	nt		Masonry _	X Rein	forcement Masc	onry		
Quality Control				Prestress	Post Te	nsion	X Other	WE	LDING		
				INSPE	CTIO	N					
STARTED @:	ľ	1st TRUCK BATCI	HED:		MET	HOD OF PLACEM	MENT:				
OBSERVATIO	N OF PLACING	3 6" C.M.U.'s 5 C	OURSES @ P	ERIMETER	OF NO	ORTH BUILDING	GRID LINE PX.7	7 / 17-23, 23 /	LX-PX.7,		
USED ORCO	PRE BLENDED	TYPE S MORT	AR, USED GAS	S POWERE	D DRU	M MIXER. MOR	TAR FINS & BAF	CLEARANCE	:S		
ACCEPTABLE	E. MADE 1 SET	OF 3 MORTAR	SAMPLES @ C	GRID LINE	MX-23.						
OBSERVATIO	N OF TACK W	ELDING TIE BA	CK @ ROOF N	ORTH & S	OUTH I	BUILDING, WEL	DER ABEL RAMI	REZ L.A. CER	T. #		
P016845, EXI	P. DATE 10-09-	07. PROCESS S	.M.A.W. 1/8 70	18.							
						····					
							100.000				
	<u></u>						<u> </u>				
L		······································		SAM	PLES						
SUPPLIER:		ORCO									
MIXED NO	TICKET#	DESIGN SLUMP	MEASURED SLUMP	ADMIX	TURE	DESIGN PSI	CUBIC YARDS	SPECIMENS	TEMPERATURE AMB CONC.		
TYPE S						1500		3			
			-								
Additional Page	(Page #) CM				REP	ORT Contai	ns Not Contain	No.	on-Compliant Items		
	Certificat	ion of Compliance			Allins	pections based on min	mum of 4 hours for work	performed over 4 ho	urs = 8 hours minimum		
I declare under penalty of knowledge the work duri compliance with the appro-	ng the period covere	d by this report has t	peen performed and		If insp	ector is called to a proje	ect and no work is perfort	ned a 2 hour minimu	m charge will be applied		
Inspectors Name		GORDON LE	wis		Appr	oved Authorized b		PROJECT SUPERINTE	NDENT)		
Inspectors Signature	20	Zelon ~	leuris				(-		,		
	_				1			`			



INSPECTOR CODE		JOB NUMBER	05-142	25	DATE	Janu	ary 31,	2007	M T W	TF	SS
JOB NAME Univers	ity of California of R	iverside C.H	.A.S.S.		BUILD F			SA / OSHPD APP F		Rivers	ide
ADDRESS 3615 Ca	anyon Crest Dr.		CITY Riverside		GENER	AL CONTRA	CTOR	S.J. Amoroso			
ARCHITECT Leo I	Daily	ENGINEER Sa	iful/Bouquet		SUBCO	NTRACTOR	(If Any)	KRETSCHMAR			
REQUIREMENTS identified. Commu	: Limit of one job no inication (RFI Sketc t granting authority of	h, etc.) voiding pre	number per sl evious non-cor	npliant items n	nust be i	y type and isted. Reco	SPECIF ord conve	FIC location. Non- ersations and com	compliant work r nmunications with	nust be sp n project d	ecifically esigners,
r Deor		1.5X			URS X			TIME IN		MÉ OÚT	 1
REGUI 8	_AR	1.5A			<u> </u>			5:30 AM		2:00 PM	
			☐ Show-	Up Only				Expen	ses		
X Reinforceme	nt Concrete	Co	ncrete Placem	nent		X Mas	onry	Rei	nforcement Maso	onry	
Quality Contr	rol lo	Administration		Prestress	/Post Te	nsion		Dther			
				INSPE	CTIC	N					
STARTED @:	1	1st TRUCK BATC	HED:		MET	HOD OF F	LACEM	ENT:		.	
OBSERVAT	ION OF CONCRE	TE PLACEMEN	T APPROXI	MATELY 30 (CU. YDS	S. ROBER	TSON'	s 5000 P.S.I. CC	NCRETE MIX	#CHJ053	372
LOCATION	- STAIR #1 LEVE	L 2 - 3 & THREE	WALLS @	STAIR 6. USI	ED BOO	M TRUC	K FOR	CONCRETE PL	ACEMENT, US	ED	
ELECTRIC	VIBRATOR FOR	CONSOLIDATIO	N. MADE 1	SET OF 4 SA	MPLES	@ STAIF	R #1.	·			
KRETSCHM	IAR PLACING 6" (CMU's @ ROOF	NORTH BU	ILDING - LIG	HT STE	ADY RAI	N - PRE	VIOUSLY PLAC	CED 1RST CO	URSE	
WAS NOT	COVERED FROM	RAIN & WAS SA	ATURATED,	DISCONTIN	UED W	ORKING	@ THIS	AREA UNTIL L	ATER IN MOR	NING.	
		 									
							<u> </u>				
									· · · · · · · · · · · · · · · · · · ·	 	
									·		
L				 							
				SAM	PLES	}					
SUPPLIER:	· · · · · · · · · · · · · · · · · · ·	ROBERTSON'S				·				TENDE	RATURE
MIXED NO	TICKET#	DESIGN SLUMP	MEASURED SLUMP	ADMIX	TURE	DESIGI	N PSI	CUBIC YARDS	SPECIMENS	AMB	CONC.
CHJ05372	4832774	4	4 3/4			500	10	10	4	50	68
					T				<u> </u>		
Additional Pa	ge (Page #) CM				REP	ORT 🗌	Contain Does N	s ot Contain	No	on-Compli	ant Items
	Certificati	ion of Compliance			All inc	pections have	d on minim	num of 4 hours for work	performed over 4 ho	urs = 8 hour	minimum
I declare under penalty	of perjury that all of the uring the period covered	above statements are	true and the of m	y own personal	If insp	ector is called	to a projec	and no work is perfor	med a 2 hour minimu	m charge wil	be applied
	roved plans specifications			rid installed in				8	/ /	$\overline{}$	
Inspectors Name	-,- <u>-</u>	GORDON LE	WIS		Appr	oved Author	orized by		PROJECT SLIPHRINTER	NDENT	
Inspectors Signatu	re <i>Dord</i>	on Zee	us_							111	
Inspectors License	#	5009669	-48		Subr	nitted by				 	



INSPECTOR CODE		JOB NUMBER	05-1425		DATE	Febr	uary 1, 2	007	MT		T F	S	S
JOB NAME Univers	ity of California of	Riverside C.h	H.A.S.S.		BUILD F	PERMIT NUM	MBER / DS	SA / OSHPD APP	FILE#		R	iverside	,
ADDRESS 3615 C	anyon Crest Dr.		CITY Riverside		1	AL CONTRA	,	S.J. Amoroso					
ARCHITECT Leo I			aiful/Bouquet		1	NTRACTOR		MAS IRON / KR					
REQUIREMENTS identified. Commi	unication (RFI Sket	tch, etc.) voiding pr	t number per she evious non-com	eet. Identify a	il work t nust be !	y type and isted. Reco	SPECIF rd conve	IC location. Non rsations and cor	-compliant nmunicatio	t work n	nust b 1 proje	e spec ect desi	ifically igners,
building and perm	t granting authority	officials.		НО	URS								
REGU	LAR	1.5X			2X			TIME IN	T	T	IME O	JT	
8								7:00 AM		2:	:00 P	M	
			☐ Show-U	lp Only				Exper	nses				
Reinforceme	nt Concrete		oncrete Placeme	ent		X Maso	onry	Re	inforceme	nt Masc	אחרא		
Quality Contr	ol	Administration	□	Prestress	/Post Te	nsion _		X Other		WE	LDIN	G	
				INSPE	CTIC	N							
STARTED @:		1st TRUCK BATC	HED:		MET	HOD OF P	LACEME	ENT:					
OBSERVAT	ION OF WELDIN	NG ROOF TIE BA	ACK TO EMBE	D PLATE, 1	/4" FILI	ET WELD	ALL A	ROUND, COM	PLETED	NORT	<u>H</u>		
BUILDING.	WELDER ABEL-	CERTS ON FILE	E, PROCESS F	.C.A.W. SE	MIAUT	OMATIC,	ELECTI	RODE E71T-8,	NR232				
ABOVE WE	LDS ARE WITH	N THE ACCEPT	ANCE CRITER	RIA OF A.W	.S. D1.1	<u>. </u>							
OBSERVAT	ION OF PLACIN	G 6" C.M.U. @ F	ROOF NORTH	BUILDING,	COMP	LETED 5 (COURS	ES @ PERIME	TER, RE	INFOR	CEM	ENT	
#4 @ 16" O	N CENTER EAC	H WAY PER DE	TAIL 4 / S-703,	MORTAR I	FINS &	BAR CLEA	ARANCI	ES ACCEPTAE	BLE, MIXI	NG OF	₹CO		
TYPE S IN	3AS POWERED	DRUM MIXER,	ABOVE AREA	IS ACCEPT	ABLE F	OR GRO	JT PLA	CEMENT.					
İ													
				•									
<u> </u>			****								*******		
													
		······································	·										
<u> </u>			· · · · · · · · · · · · · · · · · · ·	SAM	PLES								
SUPPLIER:				OAIVI		, 	· · · · · · · ·						
MIXED NO	TICKET#	DESIGN SLUMP	MEASURED SLUMP	ADMIX	TURE	DESIGN	I PSI	CUBIC YARDS	SPECI	MENS		MPERA MB CO	
			SLUMP						 		<u> </u>		
									1		 		
								14.55			<u> </u>		
		L	 	<u> </u>	REP	ОРТ	Contains		<u> </u>			!!1	
Additional Pa	ge (Page #) CM				1	Ŭ. X	Does No	ot Contain		- NO		mpliant	
	Certifica	ition of Compliance	•					um of 4 hours for wor					
I declare under penalty knowledge the work d	uring the period cover	ed by this report has	been performed and		If insp	ector is called	to a project	and no work is perfo	ormed a 2 hou	ır minimui	m charg	je will be	applied
compliance with the app								7	// 5	//			0
Inspectors Name		GORDON LE	:WIS		Appr	oved Autho	nzed by	Jests	(PRODECT SU	IPERINTEN	NDENT)		<u> </u>
Inspectors Signatu	re Dor	den L	uis_						•				
Inspectors License	;# <u>.</u>	5009669-84 / C.V	V.I.05061091		Subr	mitted by							



INSPECTOR CODE		JOB NUMBER	05-142	5	DATE	Fe	bruary 2,	2007	MITW	T	F S	S S
JOB NAME Universit	y of California of	Riverside C.I	1.A.S.S.		BUILD	PERMIT N	UMBER / D	SA / OSHPD APP I	TCE#		Riversid	le
ADDRESS 3615 Car	nyon Crest Dr.		CITY Riverside	·	GENER	AL CONT	RACTOR	S.J. Amoroso				
ARCHITECT Leo Da	aily	ENGINEER	aiful/Bouquet		SUBCO	NTRACTO	OR (If Any)	MAS IRON / KRE	TSCHMAR			
REQUIREMENTS: identified. Commur building and permit	nication (RFI Ske	tch, etc.) voiding pr	t number per sh revious non-con	neet. Identify a npliant items i	ill work t nust be l	y type ai isted. Re	nd SPECI cord conv	FIC location. Non- ersations and con	compliant work nmunications wi	must	t be spe oject des	cifically signers,
building and permit	granting authorit	y officials.		НО	URS				, , , , , , , , , , , , , , , , , , ,			
REGULA	AR	1.5X			2X			TIME IN		TIME		
8								7:00 AM	;	3:00	PM	
			Show-	Up Only				Expen	ses			
Reinforcement	t Concrete	C	oncrete Placem	ent		X Ma	asonry _	Rei	nforcement Ma	_		
Quality Contro	' E] Administration	[Prestress	/Post Te	nsion		X Other	W	VELDI	NG	
·			1.1	INSPE	CTIC	N						
STARTED @:		1st TRUCK BATC	HED:		MET	HOD OF	PLACEM	IENT:				
OBSERVATION	ON OF WELDI	NG TIE BACK GA	ALVANIZED P	IPE TO EME	BED PL	ATE @ I	ROOF SO	OUTH BUILDING	, COMPLETE	<u>:D</u>		
THS AREA, U	JSED 1/4" FILL	ET WELD ALL A	ROUND, PRO	CESS F.C.A	A.W. SE	MIAUT	DMATIC	& S.M.A.W. MAI	NUAL.			
ELECTRODE	E71T-8 NR23	2 & 1/8 7018, ELI	ECTRIC OVE	N WAS USE	D FOR	LOW H	YDROGE	N ELECTRODE	<u>S.</u>			
WELDER-GL	JMARO BECEF	RRA- A.W.S.D1.1	·· ·· · · · · · · · · · · · · · · · ·									
ABOVE WELDS ARE WITHIN THE ACCEPTANCE CRITERIA OF A.W.S. D1.1												
OBSERVATION	ON OF PLACIN	IG 6" CMU,s @ L	EVEL 4 GRID	LINE PX / 1	<u>7-23, 5</u>	COURS	ES, REII	NFORCEMENT	#4 @ 16" ON			
CENTER EAG	CH WAY, C.M.	U. PLACEMENT	ON GOING.					<u> </u>				
ļ												
	1	- to the second		·	····						 	
						,					·. ·	
				 					 		.	
		·····		·					····			
		****		SAM	PLES							
SUPPLIER:											FUSES	-USE
MIXED NO	TICKET#	DESIGN SLUMP	MEASURED SLUMP	ADMIX	TURE	DESI	GN PSI	CUBIC YARDS	SPECIMENS		AMB CO	
							<u>-</u>			$oldsymbol{\perp}$		
										\bot		
					,				<u> </u>			
Additional Pag	e (Page #) CM				REP	ORT 🗆	Contair Does N	ns lot Contain	N	√on-C	omplian	it Items
	Certifica	ation of Compliance	•		All ins	pections ba	sed on minin	num of 4 hours for work	performed over 4 t	hours =	8 hours m	ninimum
I declare under penalty of knowledge the work duri compliance with the appro	ing the period cover	red by this report has	been performed a		If insp	ector is call	ed to a proje	ct and no work is perfor	med a 2 hour minim	num cha	arge will be	e applied
Inspectors Name _		GORDON LE	WIS		Appr	oved Aut	thorized by	tol	Lun		9	
Inspectors Signature	· Dur	don De	ws						PROJECT SUPERINT	ENDENT	τ)	
Inspectors License #	‡ <u></u>	5009669-84/ C.W										



	JOB NUMBER 05-14	25	DATE Fe	bruary 5, 2007	M T W	TFSS					
JOB NAME University of California of Rivers	ide C.H.A.S.S.		BUILD PERMIT NUMBER / DSA / OSHPD APP FILE# Riverside								
ADDRESS 3615 Canyon Crest Dr.	CITY Riversid	le	GENERAL CONT	RACTOR S.J. Amoroso							
	ENGINEER Saiful/Bouquet		SUBCONTRACT	OR (If Any) KRETSCHMAR	·						
REQUIREMENTS: Limit of one job number	er one permit number per s	heet. Identify a	ll work by type a	nd SPECIFIC location. No	n-compliant work r	nust be specifically					
identified. Communication (RFI Sketch, etc.		mpliant items n	nust be listed. Re	cord conversations and co	mmunications with	n project designers,					
		HO	URS	· · · · · · · · · · · · · · · · · · ·							
REGULAR	1.5X	2	X X	TIME IN		ME OUT					
8	11			6:30 AM	4	:00 PM					
	Show	-Up Only		Expe	enses						
Reinforcement Concrete	Concrete Placer	nent	X Ma	asonry Ro	einforcement Maso	onry					
Quality Control Ad	ministration	Prestress/	Post Tension	X Othe	EPOX	//GROUT					
		INSPE	CTION								
STARTED @: 1st TF	RUCK BATCHED:			PLACEMENT:							
OBSERVATION OF GROUT PLACE	CEMENT @ PARAPET I	WALL ROOF	PERIMETER N	IORTH BUILDING & LE	VEL 4 GRID I IN	F PX / 17-23					
PLACED APPROXIMATELY 20 CI						i					
PLACEMENT, USED ELECTRIC						1					
						1					
OBSERVATION OF EPOXY #5 VE											
ELEVATOR #4 MEZZANINE LEVE		D 3/4" DIAME	ETER A 5" EMI	SEDMENT, CLEANED F	IOLES OUT WIT	<u> </u>					
GAS POWERED BLOWER & NYL				O 401 ON OSNITED 44	F7745UNIF 1 F3/F						
OBSERVATION OF EPOXY #4 VE											
GRID LINE LX.2 / 18-22.5, DRILLE	ED 5/8 DIAMETER X 5"	EMBEDMENT	, CLEANED H	OLES OUT WITH GAS	POWERED BLO	IVVER					
& NYLON BRUSH.					······································						
					·····						
					····						
											
	,	SAM	PLES			· · · · · · · · · · · · · · · · · · ·					
SUPPLIER: RAN	NCHO READY MIX					TEMPERATURE					
MIXED NO TICKET# DES	IGN SLUMP MEASURE SLUMP	ADMIXT	TURE DES	GN PSI CUBIC YARDS	SPECIMENS	AMB CONC.					
CHJ05-404 2316322	9" 10"	R-CRI	ETE 2	500 10	4	49 62					
					1 Ch						
Additional Page (Page #) CM			REPORT	Contains Does Not Contain	No.	on-Compliant Items					
Certification of	f Compliance										
I declare under penalty of perjury that all of the above	his report has been performed			ased on minimum of 4 hours for wo led to a project and no work is perf		urs = 8 hours minimum					
knowledge the work during the period covered by the compliance with the approved plans specifications and a					١ .	m charge will be applied					
compliance with the approved plans specifications and a	ORDON LEWIS		Approved Au	thorized by	2/00						
			Approved Au	thorized by	(PROJECT SUPERINTEN						



INSPECTOR CODE	JOB NUMBER	05-1425		DATE	Februa	ry 6, 2007	MITW	TFSS				
JOB NAME University of California	of Riverside C.I	H.A.S.S.		BUILD F	PERMIT NUME	BER / DSA / OSHPD APP	FILE#	Riverside				
ADDRESS 3615 Canyon Crest Dr	•	CITY Riverside		GENER	AL CONTRAC	TOR S.J. Amoroso						
ARCHITECT Leo Daily	ENGINEER S	aiful/Bouquet		SUBCO	NTRACTOR (I	fAny) KRETSCHMAR	COWELCO					
REQUIREMENTS: Limit of one	ob number one permi	t number per she	et. Identify a	ll work b	y type and S	PECIFIC location. Non-	compliant work	must be specifically				
identified. Communication (RFI statistics) building and permit granting authors.		revious non-comp	liant items n	nust be I	isted. Record	1 conversations and con	nmunications with	n project designers,				
L			НО	URS								
REGULAR	1.5X			2X		TIME IN	1	IME OUT				
8						7:00 AM	3	:00 PM				
		Show-Up	Only			Exper	ses					
Reinforcement Concrete	c	oncrete Placemer	nt		Mason	ry X Rei	nforcement Mase	onry				
Quality Control	Administration		Prestress	/Post Te	nsion	X Other	EPOXY	/ WELDING				
			INSPE	CTIC	N							
STARTED @:	1st TRUCK BATC	HED:		MET	HOD OF PL	ACEMENT:						
OBSERVATION OF WEL	DING SHEAR PLAT	TES TO EMBED	S @ ELEV	ATOR	1 & 2 ROOF	LEVEL, WELDING	5/16" FILLET W	/ELD				
BOTH SIDES PER STEE	L BEAM CONNECT	ION SCHEDULI	E DETAIL	3 / S-00	4. WELDEF	RS CERTS. ON FILE,	PROCESS F.O	C.A.W.				
SEMIAUTOMATIC, ELEC	TRODE E71T-8, N	R232. ABOVE V	VELDS AR	E WITH	IIN THE AC	CEPTANCE CRITER	IA OF A.W.S.D	1.1.				
OBSERVATON OF EPOX	Y #4 VERTICAL D	OWELS @ 16" (ON CENTE	R MEZ	ZANINE LE	VEL GRID LINE 17 /	L.2-L.9,					
DRILLED 5/8" DIAMETER X 5" EMBEDMENT, CLEANED HOLES OUT WITH GAS POWERED BLOWER & NYLON BRUSH.												
OBSERVATION OF GRO	UTING ELEVATOR	#3 GUIDRAIL S	SUPPORT	TUBE (@ LEVEL 1	. 2, 3, & 4, PER DETA	AL 1 / S-005.					
GROUTING TUBE STEE	L @ NORTH BUILD	ING GRID LINE	PX-19.2, I	PX-19.8	, PX-20.2, I	PX-20.6, MX.8-23 TV	O PLACES.					
USED MASTERFLOW 92	8, USED DRILL MO	OTOR WITH PA	DDLE ATT	ACHME	ENT, MIXIN	G PER INSTRUCTIO	NS ON GROU	Г BAG.				
COMPLETED PLACING	C.M.U's 5 COURSE	S @ MEZZANIN	IE LEVEL	GRID L	INE LX.2 / 1	7.5-22.5. REINFORC	EMENT #4 @	16" ON				
CENTER EACH WAY PE	R DETAIL 4 / S-703	B. MADE 1 SET	OF 3 MOR	TAR SA	MPLES.							
			SAM	PLES	3							
SUPPLIER:	ORCO PRE M	X TYPE S										
MIXED NO TICKET #	DESIGN SLUMP	MEASURED SLUMP	ADMIX	TURE	DESIGN I	PSI CUBIC YARDS	SPECIMENS	TEMPERATURE AMB CONC.				
TYPE S					1500		3					
Additional Page (Page #) Cl	A			REP	ORT	contains loes Not Contain	No	on-Compliant Items				
Cert	fication of Compliance	9										
I declare under penalty of perjury that all knowledge the work during the period of compliance with the approved plans specifi	overed by this report has	been performed and				on minimum of 4 hours for work a project and no work is perfo						
Inspectors Name	GORDON LE			Appr	oved Authori	zed by						
Inspectors Signature	adon o	Teuis	····			-	(PROJECT SÚPERINTE	AND				
Inspectors License #	5009669-84 / C.V	V.I. 05061091	·····	Subr	mitted by _							



OS-1425 February 7, 2007 OS NAME (Inviersity of California of Rivernide C.H.A.S.S. GUILD PERSON RUMBERT JOSS TOSHPO APP FILES Riverside SIGNAME (INVIERS) AND CONTROL OF THE STATE OF THE					ISPECTION		CPOI	<u> </u>						
CHIAS.S. CHOPESS g15 Cayon Crest Dr. CTRIVERS (Capped Crest Dr. CTRIVERS) ENGINEER Safat/Bouquet HOURS HOURS HOURS HOURS HOURS HOURS TIME IN TIME DUT. Bepointes Freedrag Time In Time Dut. Time Dut. Show-Up Only Exponses Freedrag Tension Exponses Revent Concrete Administration Presidenses/Pool Tension Exponses INSPECTION STARTED @: Ist TRUCK BATCHED: Method of PLACEMENT: OBSERVATION OF WELDING ELEVATOR SEPARATOR TUBE @ ELEVATOR 1 & 2 LEVEL 3 & 4 PER DETAIL 3 & 4 / S-005. INSTALLED W12-22 BEAMS @ ROOF ELEVATOR 1 & 2. TIGHTEN 7/8 HIGH STRENGTH BOLTS USING TURN OF THE NUT. METHOD SNUG TIGHT + 1/3 TURN PER A I.S.C. WELDING PROCESS F.C.A.W. SEMAUTOMATIC ELECTROPE FTT-8, NR232 WELDERS CERTS, ON FILE. AROVE WELDS ARE WITHIN THE ACCEPTIANCE CRITERIA OF A W.S.D.1.1 OBSERVATION OF EPOXY #5 VERTICAL BARS @ 8" ON CENTER & #5 BARS HORIZONTAL @ 16" ON CENTER @ ELEVATOR 4 MEZZANINE TO LEVEL 2, DRILLED 34 DIAMETER S." EMBEDMENT, CLEANED HOLES QUT WITH GAS POWERED BLOWER & NYL ON BRUSH. SAME AREA BELOW MEZZANINE CHECKED CLEAN OUTS-ACCEPTABLE. SAMPLES SUPPLIER: MIXED NO TICKET # DESIGN SLIAMP MEZZANINE CHECKED CLEAN OUTS-ACCEPTABLE. FRONCE: Experiment of a procession of	}			05-142	25					1	X		F	SS
ADDRESS 3615 Carryon Crest D. SPANEAU CANINACTOR (\$ AV) SPANEAU CANINACTO	JOB NAME Univer	sity of California of	Riverside C.F	1.A.S.S.		BUILD P	ERMIT N	UMBER / I	OSA / OSHPD APF	FILE	#		Rive	side
REQUIREMENTS: Limit of one job number one permit number per sheet, identify all work by type and SPECIFIC Coation, Non-compliant work must be specified expected. Communication (RFI Sketch, ect.) voiding previous non-compliant them must be listed. Record conversations and communications with project des buildings and permit granting submortly officials. HOURS	IADDRESS			CITY Riverside		GENER	AL CONT	RACTOR	S.J. Amoroso					
identified_Communication (RFI Sketch, etc.) voiding previous non-compliant terms must be listed. Record conversations and communications with project desibulding and permit granting subnorty officials. ReGULAR	ARCHITECT Leo	Daily	ENGINEER S	aiful/Bouquet	· · · · · · · · · · · · · · · · · · ·	SUBCO	NTRACTO	OR (If Any)	COWELCO / K	RETS	CHMAR			
REGULAR SK	identified. Comm	unication (RFI Ske	etch, etc.) voiding p	t number per s revious non-cor	heet. Identify a mpliant items r	all work b must be li	y type a isted. Re	nd SPECI cord conv	FIC location. No versations and co	n-con ommu	npliant wo inications	rk m	ust be s project o	pecifical designer
Reinforcement Concrete Show-Up Only Expenses Reinforcement Concrete Concrete Placement Masonry Reinforcement Masonry Reinforcement Masonry Quality Control Administration PrestressPost Tension Other EPOXY / WELDING INSPECTION METHOD OF PLACEMENT: OBSERVATION OF WELDING ELEVATOR SEPARATOR TUBE @ ELEVATOR 1 & 2 LEVEL 3 & 4 PER DETAIL 3 & 4 / S-005. INSTALLED W12x22 BEAMS @ ROOF ELEVATOR 1 & 2, TIGHTEN 7/8 HIGH STRENGTH BOLTS USING TURN OF THE NUT METHOD SNUG TIGHT + 1/3 TURN PER ALS.C. WELDING PROCESS F.C.A.W. SEMIAUTOMATIC ELECTRODE E7/1T-8, NR232 WELDERS CERTS. ON FILE. ABOVE WELDS ARE WITHIN THE ACCEPTANCE CRITERIA OF A W.S.D.I.1 OBSERVATION OF EPOXY #5 VERTICAL BARS @ 8° ON CENTER  BARS HORIZONTAL @ 16° ON CENTER @ ELEVATOR #4 MEZZANINE TO LEVEL 2, DRILLED 3/4 DIAMETER X 5° EMBEDMENT, CLEANED HOLES OUT WITH GAS POWERED BLOWER & NYLON BRUSH. SAME AREA BELOW MEZZANINE CHECKED CLEAN OUTS-ACCEPTABLE. Additional Page (Page #) CM					НО	URS								
Show-Up Only			1.5X			2X		· · · · · · · · · · · · · · · · · · ·						<u>. </u>
Reinforcement Concrete		8			·				7.00 AW		l			· · · · · · · · · · · · · · · · · · ·
Ouality Control				Show-	-Up Only				Expe	enses				
INSPECTION STARTED @:	Reinforceme	ent Concrete	C	oncrete Placen	nent	i	X Ma	asonry _	R	einfor	cement N	lasor	iry	
STARTED @: 1st TRUCK BATCHED: METHOD OF PLACEMENT: OBSERVATION OF WELDING ELEVATOR SEPARATOR TUBE @ ELEVATOR 1 & 2 LEVEL 3 & 4 PER DETAIL 3 & 4 / S-005. INSTALLED W12x22 BEAMS @ ROOF ELEVATOR 1 & 2. TIGHTEN 7/8 HIGH STRENGTH BOLTS USING TURN OF THE NUT METHOD SNUG TIGHT + 1/3 TURN PER A.I.S.C. WELDING PROCESS F.C.A.W. SEMIAUTOMATIC ELECTRODE E71T-8, NR232 WELDERS CERTS. ON FILE, ABOVE WELDS ARE WITHIN THE ACCEPTANCE CRITERIA OF A.W.S.D.1.1 OBSERVATION OF EPOXY #5 VERTICAL BARS @ 6" ON CENTER & #5 BARS HORIZONTAL @ 16" ON CENTER @ ELEVATOR #4 MEZZANINE TO LEVEL 2, DRILLED 3/4 DIAMETER X 5" EMBEDMENT, CLEANED HOLES OUT WITH GAS POWERED BLOWER & NYLON BRUSH. SAME AREA BELOW MEZZANINE CHECKED CLEAN OUTS-ACCEPTABLE. SUPPLIER: MIXED NO TICKET # DESIGN SLUMP MEASURED SLUMP ADMIXTURE DESIGN PSI CUBIC YARDS SPECIMENS TEMPERA AMB CO Additional Page (Page #) CM Certification of Compliance All inspections based on minimum of 4 hours for work performed over 4 hours = 6 hours m if implecting the period covered by this experiment of the bost for work for proving that all of the above statements are true and the of my own personal increased on minimum of 4 hours for work performed over 4 hours = 6 hours m if implections based on minimum of 4 hours for work performed over 4 hours = 6 hours m if implections based on minimum of 4 hours for work performed over 4 hours = 6 hours m if implections based on minimum of 4 hours for work performed over 4 hours = 6 hours m if implections based on minimum of 4 hours for work performed over 4 hours = 6 hours m if implections based on minimum of 4 hours	Quality Cont	rol [Administration		Prestress	/Post Te	nsion .		X Othe	er	EPC	XY /	WELDI	NG
OBSERVATION OF WELDING ELEVATOR SEPARATOR TUBE @ ELEVATOR 1 & 2 LEVEL 3 & 4 PER DETAIL 3 & 4 / S-005. INSTALLED W12×22 BEAMS @ ROOF ELEVATOR 1 & 2, TIGHTEN 7/8 HIGH STRENGTH BOLTS USING TURN OF THE NUT METHOD SNUG TIGHT + 1/3 TURN PER ALS.C. WELDING PROCESS F.C.A.W. SEMIAUTOMATIC ELECTRODE E71T-8, NR232 WELDERS CERTS, ON FILE, ABOVE WELDS ARE WITHIN THE ACCEPTANCE CRITERIA OF A.W.S.D.1.1 OBSERVATION OF EPOXY #5 VERTICAL BARS @ 8° ON CENTER & #5 BARS HORIZONTAL @ 16° ON CENTER @ ELEVATOR #4 MEZZANINE TO LEVEL 2, DRILLED 3/4 DIAMETER X 5° EMBEDMENT, CLEANED HOLES OUT WITH GAS POWERED BLOWER 8 NYLON BRUSH, SAME AREA BELOW MEZZANINE CHECKED CLEAN OUTS-ACCEPTABLE. SAMPLES SUPPLIER: MIXED NO TICKET # DESIGN SLUMP MEASURED SLUMP ADMIXTURE DESIGN PSI CUBIC YARDS SPECIMENS TEMPERA AMB CC Additional Page (Page #) CM REPORT DOES NOT COntain Non-Compilian Additional Page (Page #) CM REPORT DOES NOT CONTAIN NON-Compilian Additional Page (Page #) CM REPORT DOES NOT CONTAIN NON-Compilian Additional Page (Page #) CM REPORT DOES NOT CONTAIN NON-COMPILIAN AND CONTAINS NON-COMPILIAN AND CONTAINS NON-COMPILIAN All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours m 1 impected in a called to a project and no work is performed and installed in compilator with the approved junt sendiculation and all application codes Inspectors Name GORDON LEWIS Approved Authorized by Page 1 Approved Authorized by PROCEST BURESNITS (CAPIT)					INSPE	ECTIO	N							
INSTALLED W12x22 BEAMS @ ROOF ELEVATOR 1 & 2, TIGHTEN 7/8 HIGH STRENGTH BOLTS USING TURN OF THE NUT METHOD SNUG TIGHT + 1/3 TURN PER A.I.S.C. WELDING PROCESS F.C.A.W. SEMIAUTOMATIC ELECTRODE E71T-8, NR232 WELDERS CERTS. ON FILE, ABOVE WELDS ARE WITHIN THE ACCEPTANCE CRITERIA OF A.W.S.D1.1 OBSERVATION OF EPOXY #5 VERTICAL BARS @ 8" ON CENTER & #5 BARS HORIZONTAL @ 16" ON CENTER @ ELEVATOR #4 MEZZANINE TO LEVEL 2, DRILLED 3/4 DIAMETER X 5" EMBEDMENT, CLEANED HOLES OUT WITH GAS POWERED BLOWER & NYLON BRUSH. SAME AREA BELOW MEZZANINE CHECKED CLEAN OUTS-ACCEPTABLE. SUPPLIER: MIXED NO TICKET # DESIGN SLUMP MEASURED SLUMP SLUMP ADMIXTURE DESIGN PSI CUBIC YARDS SPECIMENS AMB CC Additional Page (Page #) CM Certification of Compliance I declare under penalty of peritury that all of the above statements are true and the of my own personal knowledge the work during the performed over 4 hours = 8 hours in framework in the approved plans specific posterior and all applicable codes Inspectors Name GORDON LEWIS Approved Authorized by PROJECT BURERINTEGEN.	STARTED @:		1st TRUCK BATC	HED:	-	MET	HOD OF	PLACEM	MENT:				•	
METHOD SNUG TIGHT + 1/3 TURN PER ALS.C. WELDING PROCESS F.C.A.W. SEMIAUTOMATIC ELECTRODE E71T-8, NR232 WELDERS CERTS. ON FILE, ABOVE WELDS ARE WITHIN THE ACCEPTANCE CRITERIA OF A.W.S.D.1.1 OBSERVATION OF EPOXY #5 VERTICAL BARS @ 8" ON CENTER & #5 BARS HORIZONTAL @ 16" ON CENTER @ ELEVATOR #4 MEZZANINE TO LEVEL 2, DRILLED 3/4 DIAMETER X 5" EMBEDMENT, CLEANED HOLES OUT WITH GAS POWERED BLOWER & NYLON BRUSH. SAME AREA BELOW MEZZANINE CHECKED CLEAN OUTS-ACCEPTABLE. SUPPLIER: MIXED NO TICKET # DESIGN SLUMP MEASURED SLUMP ADMIXTURE DESIGN PSI CUBIC YARDS SPECIMENS TEMPERA AMB CC Additional Page (Page #) CM Certification of Compilance I declare under penalty of pegipty that all of the above statements are true and the of my own personal icrowledge the work during the period covered by this report has been performed and installed in compilance with the approved plans specifications and applicable codes Inspectors Signature ADDITIONAL PAGE GORDON LEWIS MEASURED ADMIXTURE DESIGN PSI CUBIC YARDS SPECIMENS TEMPERATURE AMB CC ADMIXTURE DESIGN PSI CUBIC YARDS SPECIMENS TEMPERATURE AMB CC REPORT DOES NOT Contain Non-Compilan All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours mit imaged to its called to a project and no work is performed a 2 hour minimum charge will be (PROJECT BUPERINTERDEN) Approved Authorized by PROJECT BUPERINTERDEN Approved Authorized by PROJECT BUPERINTERDEN Approved Authorized by PROJECT BUPERINTERDEN APPROVED AMB COMPILE TO THE ACCEPTANT OF AMB	OBSERVA	TION OF WELDI	NG ELEVATOR S	SEPARATOR	TUBE @ EL	EVATOR	R1&2	LEVEL 3	& 4 PER DETA	AIL 3	& 4 / S-	005.		
WELDERS CERTS, ON FILE, ABOVE WELDS ARE WITHIN THE ACCEPTANCE CRITERIA OF A.W.S.D.1.1 OBSERVATION OF EPOXY #5 VERTICAL BARS @ 8" ON CENTER & #5 BARS HORIZONTAL @ 16" ON CENTER @ ELEVATOR #44 MEZZANINE TO LEVEL 2, DRILLED 3/4 DIAMETER X 5" EMBEDMENT, CLEANED HOLES OUT WITH GAS POWERED BLOWER & NYLON BRUSH, SAME AREA BELOW MEZZANINE CHECKED CLEAN OUTS-ACCEPTABLE. SAMPLES SUPPLIER: MIXED NO TICKET # DESIGN SLUMP MEASURED SLUMP ADMIXTURE DESIGN PSI CUBIC YARDS SPECIMENS TEMPERA AMB CC Additional Page (Page #) CM Certification of Compilance I declare under penalty of perjary that all of the above statements are true and the of my own personal knowledge the work during the period covered by this report has been performed and installed in compilance with the approved plans specifications and all applicable codes Inspectors Name GORDON LEWIS Approved Authorized by (PROJECT BUPERINTERION)	INSTALLED	O W12x22 BEAM	IS @ ROOF ELEV	VATOR 1 & 2,	TIGHTEN 7	/8 HIGH	STRE	NGTH BO	LTS USING T	URN	OF THE	NU	T	
OBSERVATION OF EPOXY #5 VERTICAL BARS @ 8" ON CENTER & #5 BARS HORIZONTAL @ 16" ON CENTER @ ELEVATOR #4 MEZZANINE TO LEVEL 2, DRILLED 3/4 DIAMETER X 5" EMBEDMENT, CLEANED HOLES OUT WITH GAS POWERED BLOWER & NYLON BRUSH, SAME AREA BELOW MEZZANINE CHECKED CLEAN OUTS-ACCEPTABLE. SAMPLES SUPPLIER: MIXED NO TICKET # DESIGN SLUMP MEASURED SLUMP ADMIXTURE DESIGN PSI CUBIC YARDS SPECIMENS TEMPERA AMB CC MIXED NO TICKET # DESIGN SLUMP SLUMP ADMIXTURE DESIGN PSI CUBIC YARDS SPECIMENS TEMPERA AMB CC Certification of Compliance I declare under penalty of perjury that all of the above statements are true and the of my own personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans specifications and all applicable codes Inspectors Name GORDON LEWIS MEASURED ADMIXTURE DESIGN PSI CUBIC YARDS SPECIMENS TEMPERATED AMB CC All inspections based on minimum of 4 hours for work aperformed over 4 hours = 8 hours military will be period covered by this report has been performed and installed in compliance with the approved plans specifications and all applicable codes Inspectors Signature Advisors	METHOD S	NUG TIGHT + 1	/3 TURN PER A.	I.S.C. WELDI	NG PROCES	S F.C.A	.W. SE	MIAUTO	MATIC ELECT	ROD	E E71T-	8, NI	R232	_
#4 MEZZANINE TO LEVEL 2, DRILLED 3/4 DIAMETER X 5" EMBEDMENT, CLEANED HOLES OUT WITH GAS POWERED BLOWER & NYLON BRUSH. SAME AREA BELOW MEZZANINE CHECKED CLEAN OUTS-ACCEPTABLE. SAMPLES	WELDERS	CERTS. ON FIL	E, ABOVE WELD	S ARE WITH	IN THE ACC	EPTAN	CE CRI	TERIA O	F A.W.S.D1.1					
#4 MEZZANINE TO LEVEL 2, DRILLED 3/4 DIAMETER X 5" EMBEDMENT, CLEANED HOLES OUT WITH GAS POWERED BLOWER & NYLON BRUSH, SAME AREA BELOW MEZZANINE CHECKED CLEAN OUTS-ACCEPTABLE. SAMPLES	OBSERVAT	TION OF EPOXY	#5 VERTICAL B	ARS @ 8" ON	CENTER &	#5 BAR	RS HOR	IZONTAI	_ @ 16" ON CE	NTE	R@ELI	EVA	TOR	
SAMPLES SUPPLIER: MIXED NO TICKET # DESIGN SLUMP MEASURED SLUMP ADMIXTURE DESIGN PSI CUBIC YARDS SPECIMENS TEMPERA AME CO. Additional Page (Page #) CM REPORT Does Not Contain Non-Compliance I declare under penalty of perjury that all of the above statements are true and the of my own personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plains specifications and all applications codes Inspectors Name GORDON LEWIS Inspectors Signature American Samples CLEAN OUTS-ACCEPTABLE. SAMPLES CUBIC YARDS SPECIMENS TEMPERATE AME CO. ADMIXTURE DESIGN PSI CUBIC YARDS SPECIMENS TEMPERATE AME CO. REPORT Does Not Contain Non-Complian Non-Compliance with the approved prior specifications and all applications codes Approved Authorized by REPORT DOES TO WORK performed a 2 hour minimum charge will be reported plains specifications and all applications codes														₹&
SUPPLIER: MIXED NO TICKET # DESIGN SLUMP MEASURED SLUMP ADMIXTURE DESIGN PSI CUBIC YARDS SPECIMENS TEMPERA AMB CC Additional Page (Page #) CM REPORT Does Not Contain Non-Compliance I declare under penalty of perjury that all of the above statements are true and the of my own personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plains specifications and all applications codes Inspectors Name GORDON LEWIS Inspectors Signature Adultionized by REPORT REPORT REPORTS ADMINISTRATION OF THE PROJECT SUPPRINTENDATY														
SUPPLIER: MIXED NO TICKET # DESIGN SLUMP MEASURED SLUMP ADMIXTURE DESIGN PSI CUBIC YARDS SPECIMENS TEMPERA AMB CC AMB CC REPORT Contains Non-Compliance I declare under penalty of perjury that all of the above statements are true and the of my own personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans specifications and all applicable codes Inspectors Name GORDON LEWIS ADMIXTURE DESIGN PSI CUBIC YARDS SPECIMENS TEMPERA AMB CC All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours m if inspector is called to a project and no work is performed a 2 hour minimum charge will be knowledged to a project and no work is performed a 2 hour minimum charge will be knowledged to a project solution and all applicable codes Approved Authorized by (PROJECT SUPERINTENDENT)														
SUPPLIER: MIXED NO TICKET # DESIGN SLUMP MEASURED SLUMP ADMIXTURE DESIGN PSI CUBIC YARDS SPECIMENS TEMPERA AMB CC AMB CC REPORT Contains Non-Compliance I declare under penalty of perjury that all of the above statements are true and the of my own personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans specifications and all applicable codes Inspectors Name GORDON LEWIS ADMIXTURE DESIGN PSI CUBIC YARDS SPECIMENS TEMPERA AMB CC All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours m if inspector is called to a project and no work is performed a 2 hour minimum charge will be knowledged to a project and no work is performed a 2 hour minimum charge will be knowledged to a project solution and all applicable codes Approved Authorized by (PROJECT SUPERINTENDENT)					•									
SUPPLIER: MIXED NO TICKET # DESIGN SLUMP MEASURED SLUMP ADMIXTURE DESIGN PSI CUBIC YARDS SPECIMENS TEMPERA AMB CO Additional Page (Page #) CM Certification of Compliance I declare under penalty of perjury that all of the above statements are true and the of my own personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans specifications and all applicable codes Inspectors Signature Additional Page (Page #) CM REPORT Contains Non-Compliance All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours m ff inspector is called to a project and no work is performed a 2 hour minimum charge will be knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans specifications and all applicable codes Inspectors Signature Approved Authorized by (PROJECT SUPERINTENDENT)				· · · · · · · · · · · · · · · · · · ·	· · · · · ·									
SUPPLIER: MIXED NO TICKET # DESIGN SLUMP MEASURED SLUMP ADMIXTURE DESIGN PSI CUBIC YARDS SPECIMENS TEMPERA AMB CO Additional Page (Page #) CM Certification of Compliance I declare under penalty of perjury that all of the above statements are true and the of my own personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans specifications and all applicable codes Inspectors Signature Additional Page (Page #) CM REPORT Contains Non-Compliance All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours m ff inspector is called to a project and no work is performed a 2 hour minimum charge will be knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans specifications and all applicable codes Inspectors Signature Approved Authorized by (PROJECT SUPERINTENDENT)													•	
SUPPLIER: MIXED NO TICKET # DESIGN SLUMP MEASURED SLUMP ADMIXTURE DESIGN PSI CUBIC YARDS SPECIMENS TEMPERA AMB CO Additional Page (Page #) CM Certification of Compliance I declare under penalty of perjury that all of the above statements are true and the of my own personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans specifications and all applicable codes Inspectors Signature Additional Page (Page #) CM REPORT Contains Non-Compliance All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours m ff inspector is called to a project and no work is performed a 2 hour minimum charge will be knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans specifications and all applicable codes Inspectors Signature Approved Authorized by (PROJECT SUPERINTENDENT)										-,				
SUPPLIER: MIXED NO TICKET # DESIGN SLUMP MEASURED SLUMP ADMIXTURE DESIGN PSI CUBIC YARDS SPECIMENS TEMPERA AMB CO Additional Page (Page #) CM Certification of Compliance I declare under penalty of perjury that all of the above statements are true and the of my own personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans specifications and all applicable codes Inspectors Signature Additional Page (Page #) CM REPORT Contains Non-Compliance All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours m ff inspector is called to a project and no work is performed a 2 hour minimum charge will be knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans specifications and all applicable codes Inspectors Signature Approved Authorized by (PROJECT SUPERINTENDENT)					CANA	DIEC								
MIXED NO TICKET # DESIGN SLUMP SLUMP SLUMP ADMIXTURE DESIGN PSI CUBIC YARDS SPECIMENS TEMPERA AMB CO Additional Page (Page #) CM Certification of Compliance I declare under penalty of perjury that all of the above statements are true and the of my own personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans specifications and all applicable codes Inspectors Name GORDON LEWIS ADMIXTURE DESIGN PSI CUBIC YARDS SPECIMENS TEMPERATOR AMB CO AMB CO Contains Non-Compliance All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours m If inspector is called to a project and no work is performed a 2 hour minimum charge will be knowledge than specifications and all applicable codes Approved Authorized by (PROJECT SUPERINTERDATT)		·			SAIVI	IPLE 5)							
Additional Page (Page #) CM Certification of Compliance I declare under penalty of perjury that all of the above statements are true and the of my own personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans specifications and all applicable codes Inspectors Name GORDON LEWIS Approved Authorized by REPORT Contains Non-Compliance All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours mr If inspector is called to a project and no work is performed a 2 hour minimum charge will be Report Approved Authorized by REPORT Project and no work is performed over 4 hours = 8 hours mr If inspector is called to a project and no work is performed a 2 hour minimum charge will be Report Report Project superior superi		TIONET #	T DECICAL CLUMP	MEASURED	ADMIX	TUDE	DEC	CN DC1	CUBIC VARDS		SDECIMEN	ıe T	TEMPE	RATURE
Additional Page (Page #) CM Certification of Compliance I declare under penalty of perjury that all of the above statements are true and the of my own personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans specifications and all applicable codes Inspectors Name GORDON LEWIS Approved Authorized by REPORT Does Not Contain Non-Compliance All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours m If inspector is called to a project and no work is performed a 2 hour minimum charge will be (PROJECT SUPERINTENDENT) Approved Authorized by	MIXED NO	IICKET#	DESIGN SLUMP	SLUMP	ADMIX	TURE	DESI	GN PSI	COBIC TARDS	<u>`</u>	SPECIIVIEI	-	AMB	CONC.
Additional Page (Page #) CM Certification of Compliance I declare under penalty of perjury that all of the above statements are true and the of my own personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans specifications and all applicable codes Inspectors Name GORDON LEWIS Approved Authorized by REPORT Does Not Contain Non-Compliance All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours m If inspector is called to a project and no work is performed a 2 hour minimum charge will be (PROJECT SUPERINTENDENT) Approved Authorized by										+		\dashv		
Additional Page (Page #) CM Certification of Compliance I declare under penalty of perjury that all of the above statements are true and the of my own personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans specifications and all applicable codes Inspectors Name GORDON LEWIS Approved Authorized by REPORT Does Not Contain Non-Compliance All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours m If inspector is called to a project and no work is performed a 2 hour minimum charge will be (PROJECT SUPERINTENDENT) Approved Authorized by														
Additional Page (Page #) CM Certification of Compliance I declare under penalty of perjury that all of the above statements are true and the of my own personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans specifications and all applicable codes Inspectors Name GORDON LEWIS Approved Authorized by REPORT Does Not Contain Non-Compliance All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours m If inspector is called to a project and no work is performed a 2 hour minimum charge will be (PROJECT SUPERINTENDENT) Approved Authorized by							L							
All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours m from the statements are true and the of my own personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans specifications and all applicable codes Inspectors Name GORDON LEWIS Approved Authorized by (PROJECT SUPERINTENDENT)	Additional Pa	age (Page #) CM				REP				7		Non	ı-Compi	iant Item
Inspectors Signature GORDON LEWIS Approved Authorized by (PROJECT SUPERINTENDENT)		Certific	ation of Compliance	e		All insp	pections ba	ised on minir	num of 4 hours for wo	ork peri	formed over	4 hour	rs = 8 hou	s minimun
Inspectors Signature Dordon Jews	knowledge the work d	luring the period cove	red by this report has	been performed a		If inspe	ector is call	ed to a proje	ct and no work is per	formed	a 2 hour mi	imum	charge w	ill be applie
Inspectors Signature <u>Jordon Jeurs</u>	Inspectors Name		GORDON LE	WIS		Appro	oved Au	thorized b	v	<u></u>	ECT SUBSO	NTENIO	\leq	
Inspectors License # 5009669-84 / C.W.L. 05061091 Submitted by	Inspectors Signatu	ire Doz	don Le	uis						(FRUL	.co. ourer		7.,	
	Inspectors License	e#	5009669-84 / C.V	V.I. 05061091		Subn	nitted by						_	



INSPECTOR CODE		JOB NUMBER	05-1425		DATE	ebruary 8,	2007	M T W	F	SS
JOB NAME Univers	ity of California of	Riverside C.F	f.A.S.S.	Į.			DSA / OSHPD APP F		Rivers	ide
ADDRESS 3615 C	anyon Crest Dr.		CITY Riverside		GENERAL CON	TRACTOR	S.J. Amoroso	4 w	· · · · · · · · · · · · · · · · · · ·	
ARCHITECT Leo I	Daily	ENGINEER Sa	aiful/Bouquet	<u>;</u>	SUBCONTRAC	TOR (If Any)	KRETSCHMAR 8	& SMITH		
REQUIREMENTS identified. Commubuilding and permi	ınication (RFI Sket	tch, etc.) voiding pr	number per shee evious non-compli	t. Identify all iant items m	work by type ust be listed. F	and SPECI ecord conv	FIC location. Non-cersations and com	compliant work n munications with	nust be sp project d	ecifically esigners,
				HOL					,	
REGUI	LAR	1.5X		2)	(ļ	7:00 AM		ME OUT	
			Chavet la	O=1:		<u> </u>	Expens	<u> </u>		
<u> </u>			·							
Reinforceme	nt Concrete		oncrete Placement			lasonry _		forcement Maso		
Quality Contr	ol	Administration	□		Post Tension		X Other	EPOXY /	GROUTII	10
		,	·	INSPE						
STARTED @:		1st TRUCK BATC	HED:		METHOD C	F PLACEN	IENT:			
OBSERVAT	ION OF GROUT	PLACEMENT @	MEZZANINE P	ARAPET W	VALL GRID L	INE LX.2	17.5-22.5, ELEV	ATOR 4, FOU	R	
COURSES	ABOVE MEZZAN	NNE LEVEL & LE	VEL 4 PARAPE	T WALL G	RID LINE 4/	D-E, PLAC	CED APPROXIMA	ATELY 10 CU.	YDS.	
RANCHO R	EADY MIX 2500	P.S.I. GROUT M	IIX #CHJ 05-404	, USED TR	AILER PUMI	FOR GR	OUT PLACEMEN	NT, USED ELE	CTRIC	
		DATION, MADE 1								
				•			LED 5/8" DIAME	TER X 5" EMB	BEDMEN	т.
						-	EXP. DATE 07-0			
	· · · · · · · · · · · · · · · · · · ·									
				SAMF	PLES					
SUPPLIER:		RANCHO REAL	DY MIX							
MIXED NO	TICKET#	DESIGN SLUMP	MEASURED SLUMP	ADMIXT	URE DE	SIGN PSI	CUBIC YARDS	SPECIMENS	TEMPER AMB	RATURE CONC.
CHJ 05-404	2316726	9"	10"	R-CRE	TE	2500	10	4	55	62
Additional Pa	ge (Page #) CM				REPORT	Contair Does N	ns lot Contain	No	n-Complia	int Items
	Certifica	tion of Compliance	·		All inspections	and an minir	num of 4 hours for wprk	nortelmad over 4 box	ure = 8 hours	noinimu m
I declare under penalty knowledge the work di compliance with the app	uring the period cover	ed by this report has	been performed and		If inspector is c	alled to a proje	ct and no work is perform	ned a 2 hour minimur	n charge will	be applied
Inspectors Name		GORDON LE	WIS		Approved A	uthorized by		WDI		
Inspectors Signatu	re Don	don Je	ruis				7 "	ROJECT JUPERINTEN	IDENT)	
Inspectors License	•	5009669	9-84		Submitted b	у				
				100011	NITINIO					



			HR	Specific		ehoi	<u>t</u>								
INSPECTOR CODE		JOB NUMBER	05-1425		DATE	Fel	bruary 13	, 2007	M		T W	T	F	S	S
JOB NAME University of	California of Rive	erside C.I	H.A.S.S.	•	BUILD F	PERMITN	UMBER / I	SA / OSHPD AF	PFILE	E#			River	side	
ADDRESS 3615 Canyo	n Crest Dr.		CITY Riverside		GENER	AL CONT	RACTOR	S.J. Amoroso							
ARCHITECT Leo Daily		ENGINEER	aiful/Bouquet		SUBCO	NTRACTO	OR (If Any)	M.A.S.							
REQUIREMENTS: Lir identified. Communica building and permit gra	nit of one job nun tion (RFI Sketch,	nber one permi etc.) voiding p	t number per she	eet. Identify a pliant items n	all work b nust be l	y type ar isted. Re	nd SPECI cord conv	FIC location. Nersations and o	on-cor	mpli unic	iant wor ations v	k mus	st be s roject o	pecific lesign	:ally ers,
				НО	URS										
REGULAR		1.5X			2X			TIME IN		Ŧ			EOUT		
8								7:00 AM		上		2:00	0 PM		
	· · · ·		Show-U	ip Only					enses	s					
Reinforcement Co	oncrete	ПС	oncrete Placeme	nt		☐ Ma	sonry	🗆 '	Reinfo	orcer	ment Ma	asonr	у		
Quality Control		Administration			/Post Te				ner _		GROUT	ING	/WEL	DING	
				INSPE	CTIC	N -									
STARTED @:	1st	TRUCK BATC	HED:	11101 2			PLACEN	ENT:							
<u> </u>	OF OPOUT PI	AOEMENT 6	> EL EL (ATOD 4	4 TOD I I		CD ADD	DOVIN	ATELY 2 CH	VDC		NCHO	DE/			
OBSERVATION			•												
MIX CONCRETI	= MIX #CHJ 05-	404, 2500 P.	S.I. USED ELEC	CTRIC VIBI	RATOR	FOR CO	ONSOLIL	DATION, MAL	上15	<u>SE I</u>	OF 4 0	JRU.	UI		
SAMPLES.	<u> </u>													•	
OBSERVATION												R			.
SKETCH SSK-5	, REF. SHEET	5 / S-703, WE	LDER ABEL- C	ERTS ON	FILE, P	ROCES	S F.C.A.	W. SEMIAUT	CAMC	TIC,	·				
ELECTRODE E	71T, .030 DIAM	ETER WIRE.								—					
ABOVE ANGLE	S BEING INSTA	LLED @ LEV	/EL 4 GRID LIN	IE 1 / D-H, (ONGOI	NG.									
<u> </u>															
															
			·, · · ·										· · · · · ·		
			······································						- -						
				SAM	PLES										
SUPPLIER:	R	ANCHO REA	DY MIX								· . · .				
	TICKET# D	ESIGN SLUMP	MEASURED	ADMIX	TURE	DESI	GN PSI	CUBIC YARE	s	SPE	ECIMEN	s T	TEMPE		
	2316960	9"	SLUMP 10"			2!	500	3	\dashv		4	_	AMB 49	59	
									\dashv			+			
:		<u>. </u>	 						+	—		+		···	—
<u> </u>			}		T			1							
Additional Page (F	Page #) CM				REP	ORT 🗌	Contair Does N	ns lot Contain				Non-(Compli	ant Ite	:ms
	Certification	of Compliance	•		All ins	nections ha	sed on minir	num of 4 hours for	work ne	erform	ned over 4	bours	= 8 hour	s minim	n ison
I declare under penalty of per knowledge the work during to compliance with the approved	the period covered b	y this report has	been performed and					ct and no work is pe							
Inspectors Name		GORDON LE	WIS		Аррг	oved Aut	horized by	/	<u> </u>	_4		Æ			
Inspectors Signature	Dor	don L	ewż						(PRO	NECT	SUPERIN	TENDE	NT)		
Inspectors License #	500	9669-84 / C.V	V.I.05061091		Subn	nitted by									



INSPECTOR CODE		JOB NUMBER	05-142	 25	DATE	Fel	bruary 14	, 2007		WT	F	SS
JOB NAME Univers	ity of California of	Riverside C.H	I.A.S.S.		BUILD PI		-	SA / OSHPD APP			Riversi	de
IADDRESS	anyon Crest Dr.		CITY Riverside	e	GENERA	AL CONT	RACTOR	S.J. Amoroso		•		
ARCHITECT Leo I	Daily	ENGINEER Sa	aiful/Bouquet	· · · · · · · · · · · · · · · · · · ·	SUBCON	VTRACT(OR (If Any)	Pacific Coast S	teel			
REQUIREMENTS identified. Commubuilding and permi	inication (RFI Ske	number one permit tch, etc.) voiding pro y officials.	number per s evious non-cor	mpliant items n	nust be li	y type ar sted. Re	nd SPECII cord conv	FIC location. Not ersations and co	n-compliant mmunicatio	work mi ns with p	ust be sp project de	ecifically esigners,
REGUI	4D T	1.5X			URS X		· · · · · · · · · · · · · · · · · ·	TIME IN		TIM	E OUT	
2	.AR	1.5A			2.4			7:00 AM			0 AM	
			☐ Show	-Up Only				Expe	nses			
Reinforceme	nt Concrete	Co	oncrete Placen	nent	[Ma	asonry	Re	einforcemen	t Mason	ry	
Quality Contr	ollo] Administration	[Prestress	/Post Ter	nsion		x Othe	г	WEL	DING	
				INSPE	CTIO	N						
STARTED @:		1st TRUCK BATC	HED:		METI	HOD OF	PLACEM	IENT:				
NO INSPEC	TIONS PERFO	RMED - WELDER	S DID NOT	SHOW UP								
											· · ·	
	······					· · · · · · · · · · · · · · · · · · ·						
				· · · · · ·				·			· · · · · · · · · · · · · · · · · · ·	
	·		 							_	· · ·	
				·	 							
									-			
		······································	·····									
							 				· . · ·	
L		·						· · · · · · · · · · · · · · · · · · ·				
				SAM	PLES							- 1
SUPPLIER:		Y	MEASUREI	 				T	- CDEOU	revo T	TEMPER	ATURE
MIXED NO	TICKET#	DESIGN SLUMP	SLUMP	ADMIX	TURE	DESI	GN PSI	CUBIC YARDS	SPECIA	MENS	AMB (
									 			
					\vdash							
Additional Pa	ge (Page #) CM				REPO	ORT 🗵	Contair Does N	is lot Contain	er	Non	-Complia	nt Items
	Certifica	ation of Compliance						num of 4 hours for we				
knowledge the work du	iring the period cover	ne above statements are red by this report has it ons and all applicable cod	been performed a		If inspe	ector is call	ed to a projec	ct and no work is per	formed a 2 hour	minimum	charge will	be applied
Inspectors Name		GORDON LE			Appro	oved Aut	thorized by	<u> </u>	TPROJECT SUP	1	ENITO	
Inspectors Signatu	re <i>900</i>	don Je	ws						(PROJECT SUP	ELIN LEND	Lift)	
Inspectors License	#	C.W.I. 050	61091		Subm	nitted by						· · · · · · · · · · · · · · · · · · ·



							T 1 F 1	SIS
JOB NUMBER	05-1425	ł		bruary 15, 2		MTW	x	
f Riverside C.F	I.A.S.S.	E	BUILD PERMIT N	UMBER / DS/	A / OSHPD APP	FILE#	Rive	rside
	CITY Riverside	(GENERAL CONT	RACTOR S	.J. Amoroso			
ENGINEER Sa	aiful/Bouquet	3	SUBCONTRACTO	OR (If Any)	acific Coast St	eel		
etch, etc.) voiding pr	number per shee evious non-compli	t. Identify all	work by type a ust be listed. Re	nd SPECIFIC	C location. Non sations and cor	-compliant work nmunications w	must be s ith project	pecifically designers,
1.5X		2X	(
				/	:UU AM		TU:UU AW	
	Show-Up	Only	······································		Exper	ises		
X C	oncrete Placement	t		asonry		inforcement Ma	sonry	
Administration	□	Prestress/P	Post Tension		Other			
		INSPEC	CTION					
1st TRUCK BATC	HED:		METHOD OF	PLACEMEN	NT:			
RETE PLACEMEN	NT @ WALL STA	AIR #8 MEZ	ZANINE LEVI	EL & DIAMO	ONDS FOUNI	DATION LEVE	L	
. CONCRETE MIX	#44243, USED	TRAILER F	PUMP FOR CO	ONCRETE	PLACEMENT	, USED ELEC	TRIC	
	,							
							•	
								
.						<u> </u>		
			· · · · · ·	 				
								
								
 	<u> </u>	CAME						
		SAMF	PLES					
DESIGN SLUMP	MEASURED			GN PSI	CUBIC YARDS	SPECIMENS		RATURE
DESIGN SLUMP	SLUMP	SAMF	URE DESI	GN PSI	CUBIC YARDS	SPECIMENS	AMB	CONC.
DESIGN SLUMP			URE DESI	GN PSI	CUBIC YARDS	SPECIMENS 4		
	SLUMP		URE DESI			_	AMB	CONC.
	SLUMP		URE DESI	000		_	AMB	CONC.
	SLUMP		URE DESI		10	4	AMB	60
	SLUMP 4 1/2		URE DESI	Contains Does Not	Contain Contain	k performed over 4	AMB 43 Non-Complete	60 iant Items
cation of Compliance	SLUMP 4 1/2 true and the of my ow	ADMIXTU	URE DESI	Contains Does Not	Contain Contain	4	AMB 43 Non-Complete	60 iant Items
tation of Compliance	SLUMP 4 1/2 true and the of my ow been performed and it	ADMIXTU	URE DESI	Contains Does Not	Contain Contain	k performed over 4	AMB 43 Non-Complete	60 iant Items
cation of Compliance	SLUMP 4 1/2 true and the of my ow been performed and ites	ADMIXTU	URE DESI	Contains Does Not used on minimum ed to a project a	Contain n of 4 hours for wor und no work is perfo	k performed over 4	AMB 43 Non-Complete thours = 8 hours mum charge w	60 iant Items
cation of Compliance the above statements are ared by this report has ions and all applicable coo	SLUMP 4 1/2 true and the of my ow been performed and ites	ADMIXTU	REPORT X	Contains Does Not used on minimum ed to a project a	Contain n of 4 hours for wor und no work is perfo	k performed over 4	AMB 43 Non-Complete thours = 8 hours mum charge w	60 iant Items
	ENGINEER So number one permit etch, etc.) voiding prity officials. 1.5X X Co Administration 1st TRUCK BATC RETE PLACEMEN 15.1, Q-17, N-4, N CONCRETE MIX	CITY Riverside ENGINEER Saiful/Bouquet Do number one permit number per shee etch, etc.) voiding previous non-complify officials. 1.5X Show-Up X Concrete Placemen Administration 1st TRUCK BATCHED: RETE PLACEMENT @ WALL ST/ 15.1, Q-17, N-4, NX-17.9, NX-18.7, CONCRETE MIX #44243, USED	f Riverside C.H.A.S.S. CITY Riverside ENGINEER Saiful/Bouquet Do number one permit number per sheet. Identify all etch, etc.) voiding previous non-compliant items mity officials. HOU 1.5X Show-Up Only Concrete Placement Administration Prestress/F INSPECTION 1st TRUCK BATCHED: RETE PLACEMENT @ WALL STAIR #8 MEZTION 15.1, Q-17, N-4, NX-17.9, NX-18.7, PX-19, PX CONCRETE MIX #44243, USED TRAILER INTERESTED INTERESTE	FRIVERSIDE C.H.A.S.S. CITY Riverside ENGINEER Saiful/Bouquet Do number one permit number per sheet. Identify all work by type at etch, etc.) voiding previous non-compliant items must be listed. Refity officials. HOURS 1.5X Show-Up Only Show-Up Only The Concrete Placement INSPECTION Ist TRUCK BATCHED: RETE PLACEMENT @ WALL STAIR #8 MEZZANINE LEVENTS. PX-19, PX-20, PLACED CONCRETE MIX #44243, USED TRAILER PUMP FOR CONCRETE MIX #44243, USED T	f Riverside C.H.A.S.S. CITY Riverside GENERAL CONTRACTOR SUBCONTRACTOR (If Any) Ponumber one permit number per sheet. Identify all work by type and SPECIFIC etch, etc.) voiding previous non-compliant items must be listed. Record convertity officials. HOURS 1.5X 2X 7 Show-Up Only Concrete Placement Masonry Administration Prestress/Post Tension INSPECTION 1st TRUCK BATCHED: METHOD OF PLACEMENT (INSPECTION) RETE PLACEMENT (INSPECTION) 15.1, Q-17, N-4, NX-17.9, NX-18.7, PX-19, PX-20, PLACED APPROXING. CONCRETE MIX #44243, USED TRAILER PUMP FOR CONCRETE	FRIVERSIDE C.H.A.S.S. CITY Riverside GENERAL CONTRACTOR S.J. Amoroso SUBCONTRACTOR (If Any) Pacific Coast Structure of number one permit number per sheet. Identify all work by type and SPECIFIC location. Nonetch, etc.) voiding previous non-compliant items must be listed. Record conversations and control of structure of the st	CITY Riverside ENGINEER Saiful/Bouquet Denumber one permit number per sheet. Identify all work by type and SPECIFIC location. Non-compliant work etch, etc.) voiding previous non-compliant items must be listed. Record conversations and communications with officials. HOURS 1.5X 2X TIME IN 7:00 AM Show-Up Only Expenses X Concrete Placement Masonry Reinforcement Macommunication Other	f Riverside C.H.A.S.S. CITY Riverside GENERAL CONTRACTOR S.J. Amoroso ENGINEER Saiful/Bouquet SUBCONTRACTOR (If Any) Pacific Coast Steel Do number one permit number per sheet. Identify all work by type and SPECIFIC location. Non-compliant work must be setch, etc.) voiding previous non-compliant items must be listed. Record conversations and communications with project of the officials. HOURS 1.5X 2X TIME IN TIME OUT 7:00 AM 10:00 AM Show-Up Only Expenses X Concrete Placement Masonry Reinforcement Masonry Reinforcement Masonry INSPECTION 1st TRUCK BATCHED: METHOD OF PLACEMENT: RETE PLACEMENT @ WALL STAIR #8 MEZZANINE LEVEL & DIAMONDS FOUNDATION LEVEL 15.1, Q-17, N-4, NX-17.9, NX-18.7, PX-19, PX-20, PLACED APPROXIMATELY 10 CU. YDS. CONCRETE MIX #44243, USED TRAILER PUMP FOR CONCRETE PLACEMENT, USED ELECTRIC



INSPECTOR CODE	·	JOB NUMBER	05-142	25	DATE F	ebruary 16, 2	2007	MITIW	
JOB NAME Univers	ity of California	of Riverside C.H	.A.S.S.		BUILD PERMIT I	NUMBER / DS	A / OSHPD APP	FILE#	Riverside
IADDRESS	anyon Crest Dr.	··········	CITY Riverside	e	GENERAL CON	TRACTOR	S.J. Amoroso		
ARCHITECT Leo I		ENGINEER Sa	iful/Bouquet	·	SUBCONTRACT	OR (If Any)	RETSCHMAR	& SMITH / COV	/ELCO
REQUIREMENTS	: Limit of one id	ob number one permit	number per s	heet. Identify a	I work by type a	and SPECIFI	C location. Non-	-compliant work	must be specifically
identified. Commu		ketch, etc.) voiding pre	evious non-co	mpliant items n	nust be listed. Re	ecord conve	rsations and con	nmunications wi	th project designers,
	3			НО	URS				
REGUL	AR	1.5X			2X		TIME IN	1	TIME OUT
8						<u> </u>	7:00 AM		2:30 PM
		·	Show	-Up Only			Exper	ises	
Reinforcemen	nt Concrete	ПС	ncrete Placen			asonry		inforcement Mas	опгу
Quality Contr	ol	Administration	Г	Prestress	/Post Tension		X Other	w	ELDING
_		-		- INSPE	CTION				
STARTED @:		1st TRUCK BATCH	HED:		METHOD O	F PLACEME	NT:		
	ION OF WE'	DING L2X2X3/8X1'-	2" 0 1 4V2V2	/8V4) 2" @ C		אופ פטוט וו	NE 1 / D U I E	V/EI 2 2 8.4	
					-			. v LL 2,U,U.T	
		VELDS BOTH SIDE							
		UTOMATIC ELECTI			MANUAL ELE	CIRODE	011		
1		HUIS AWS D1.1 & A	ABEL- CERT	S ON FILE.					
WELDING C	ON GOING.	· · · · · · · · · · · · · · · · · · ·	 						
						·			
									
									
				 					
									· · ·
					_				
				· ****					
				SAM	PLES				
SUPPLIER:									
MIXED NO	TICKET#	DESIGN SLUMP	MEASUREI SLUMP	D ADMIX	TURE DES	IGN PSI	CUBIC YARDS	SPECIMENS	AMB CONC.
								·	
			 						
L		<u>, l</u> L				Contains		_	<u> </u>
Additional Pa	ge (Page#) CM				REPORT	Does No	t Contain	. N	on-Compliant Items
	Certif	ication of Compliance			All inspections b	and on minimu	m of 4 hours for wort	k performed over 4 b	ours = 8 hours minimum
knowledge the work du	uring the period co	f the above statements are vered by this report has bations and all applicable cod-	een performed a		If inspector is ca	lled to a project	and no work is perfo	med a 2 hour minim	um charge will be applied
Inspectors Name	•	GORDON LE			Approved Au	rthorized by	Laundell	1712	•
•	47	- CONDON LEN	اسمان		rippioved At	anonizou by	Lawren	PROJECT SUPERINTE	NDENT)
Inspectors Signatu	re Ho	celon of	ens	Alter					
Inspectors License	#	05061091	CWI GORDO	OC 1	Submitted by	<i></i>			
		:	0586	1091 FMISCOOL	JNTING:				
			CW						



INSPECTOR CODE		JOB NUMBER	05-1425		DATE	ebruary 19	2007		FSS
JOB NAME Universit	y of California of	Riverside C.H	.A.S.S.	<u>-</u>	BUILD PERMIT	NUMBER / D	SA / OSHPD APP FI	LE#	Riverside
ADDRESS 3615 Car	nyon Crest Dr.		CITY Riverside		GENERAL CON	TRACTOR	S.J. Amoroso		
ARCHITECT Leo D	aily	ENGINEER Sa	iful/Bouquet		SUBCONTRAC	TOR (If Any)	COWELCO / KRE	TSCHMAR & S	MITH
REQUIREMENTS: identified. Commur building and permit	Limit of one job nication (RFI Ske	tch, etc.) voiding pre	number per she evious non-com	pliant items n	nust be listed. F	and SPECII Record conv	FIC location. Non-coersations and comm	ompliant work m nunications with	nust be specifically project designers,
DECUI.	AD I	1.5X			URS ×		TIME IN	TI TI	ME OUT
REGUL 8	AK	1.57					6:00 AM		00 PM
			Show-U	Jp Only			Expense	es	
Reinforcemen	t Concrete	X Co	ncrete Placeme	ent	'	Masonry	Reinf	forcement Maso	nry
Quality Contro	1] Administration	[] Prestress	Post Tension		X Other	WE	LDING
				INSPE	CTION				
STARTED @:		1st TRUCK BATC	HED:		METHOD (F PLACEM	ENT:		
CONCRETE	PLACEMENT \	NAS CANCELLEI	DUE TO RA	JN.					
OBSERVATI	ON OF WELDI	NG L2X2X3/8X1'-	3" & L4X3X3/8	3X1'-3" @ S	OUTH BUILD	NG GRID	LINE 1 - LEVEL 4	. DISCONTIN	UED
WELDING TO	O CUT L4X3X3	/8 TO 4" LENGTH	IS TO WELD	ON TO PRE	CAST PANE	LS.			
PROCESS F	.C.A.W. SEMIA	UTOMATIC, ELE	CTRODE E71	T-11, WELD	DER ABEL - C	ERTS ON	FILE.		
ABOVE WEL	DING 3 - 2" FIL	LET WELDS BO	TH SIDES OF	ANGLE PE	R RFI #317 S	KETCH SK	(-1 & SSK-5.		
				· · · · · · · · · · · · · · · · · · ·					
				SAM	PLES				
SUPPLIER:									TELLOPE ATTION
MIXED NO	TICKET#	DESIGN SLUMP	MEASURED SLUMP	ADMIX	TURE DE	SIGN PSI	CUBIC YARDS	SPECIMENS	AMB CONC.
Additional Pag	je (Page#) CM				REPORT	☐ Contair	ns lot Contain	No	n-Compliant Items
	Certific	ation of Compliance			All inenactions	based on minir	num of 4 hours for work p	performed over 4 ho	urs = 8 hours minimum
I declare under penalty of knowledge the work dur compliance with the appro	ring the period cove	red by this report has !	been performed ar	own personal nd installed in	If inspector is o	called to a proje	ct and no work is perform	ned a 2 hour minimu	m charge will be applied
Inspectors Name		GORDON LE	WIS		Approved A	outhorized b	1	ROJECT SURÉRINTEN	IDENT
Inspectors Signatur	e 200	con Je	wis	·····			·)
Inspectors License	#	C.W.I. 050	61091		Submitted I	ру			



INSPECTOR CODE		JOB NUMBER	05-1425		DATE	February 20	, 2007	" x "	'	8 8
JOB NAME Univers	ity of California of	f Riverside C.F	I.A.S.S.		BUILD P	ERMIT NUMBER /	OSA / OSHPD APP F	ILE#	River	side
IADDRESS	anyon Crest Dr.		CITY Riverside		GENER	AL CONTRACTOR	S.J. Amoroso		· · · · · · · · · · · · · · · · · · ·	
ARCHITECT Leo [Daily	ENGINEER Sa	aiful/Bouquet	· · · · · · · · · · · · · · · · · · ·	SUBCO	NTRACTOR (If Any)	COWELCO / KRE	TSCMAR & SM	ΠH	
REQUIREMENTS identified. Commubuilding and permi	unication (RFI Ske	number one permit etch, etc.) voiding pr ty officials.	number per sheet evious non-complia	ant items n	nust be l	y type and SPEC isted. Record con	FIC location. Non-complex statements of the statement of	compliant work n munications with	nust be s project o	pecifically lesigners,
					URS		TIME IN		ME OUT	
REGUI 8	LAR	1,5X		2	X		7:00 AM		:30 PM	
		·	☐ Show-Up	Only	 -		☐ Expens	es		
☐ Poinforceme	nt Conorata	C	····			Masonry		forcement Maso	nrv	
				Prestress					, ELDNG	
Quanty Conn	ol[o			INSPE			🔼			
STARTED @:		1st TRUCK BATC	HED.	INOFE		HOD OF PLACE	AFNT.			
										
		RETE PLACEMEN								
ROBERTSC	ON'S 5000 P.S.I	. CONCRETE MIX	(#CHJ-05372, U	SED BOO	M PUN	IP FOR CONCR	ETE PLACEMEN	T, USED		
ELECTRIC '	VIBRATOR FO	R CONSOLIDATIO	ON. MADE 1 SET	OF 4 SA	MPLES	@ STAIR #1 LI	VEL 4.			
OBSERVAT	ION OF REMO	VING L2X2X3/8 F	ROM PRECAST	PANELS,	USED	ELECTRIC GRI	NDER TO REMO	VE WELD.		
WELDING L	2X3X3/8 TO P	RECAST PANEL,	WELDING 3/16 I	FILLET W	ELD 2	SIDES, PROCE	SS S.M.A.W. MAI	NUAL 1/8 7018		
USED ELEC	CTRIC OVEN FO	OR LOW HYDRO	GEN ELECTROD	DES.		···				
WELDER - A	ABEL - CERTS	ON FILE.								
						······································				
								···-		
				SAM	PLES	<u></u>				
SUPPLIER:		ROBERTSON'S	 S	<u> </u>						
MIXED NO	TICKET#	DESIGN SLUMP	MEASURED	ADMIX	TURE	DESIGN PSI	CUBIC YARDS	SPECIMENS		RATURE CONC.
CHJ05372	4794544	4"	3 3/4"	-	<u></u>	5000	10	4	52	69
							 	 		
		 		 			<u> </u>		 	
		<u> </u>	L	<u> </u>	T		L	1	<u> </u>	
Additional Pa	ige (Page #) CM				REP	ORT Conta	ns Not Contain	No	n-Compli	iant Items
	Certific	cation of Compliance			All ins	pections based on min	mum of 4 hours for work	performed over 4 ho	urs = 8 hour	rs minimum
knowledge the work d	uring the period cove	the above statements are ered by this report has tions and all applicable co	been performed and i		If insp	ector is called to a proj	ect and no work is perfor	ned a 2 hour minimu	m charge wi	Il be applied
Inspectors Name		GORDON LE	wis		Appr	oved Authorized t		2	$\stackrel{/}{\circ}$	
Inspectors Signatu	ire An	don Je	ws				— - (I	PROJECT SUPERINTEN	INEMIL	
Inspectors License	÷#	5009669-48 / C.V	V.I.05061091		Subr	mitted by		· · · · · · · · · · · · · · · · · · ·		



INSPECTOR CODE		JOB NUMBER	05-142	5	DATE	Fe	bruary 21	, 2007	M T W	TFSS
JOB NAME Univers	sity of California of	Riverside C.I	I.A.S.S.		BUILD F			OSA / OSHPD APP F		Riverside
IADDRESS	anyon Crest Dr.		CITY Riverside		GENER	AL CONT	RACTOR	S.J. Amoroso		
ARCHITECT	Daily	ENGINEER Sa	aiful/Bouquet		SUBCO	NTRACTO	OR (If Any)	COWELCO / KRE	ETSCHMAR & S	MITH
REQUIREMENTS identified. Comm building and perm	unication (RFI Sket	tch, etc.) voiding pr	t number per sh evious non-com	eet. Identify a pliant items r	ill work t nust be l	y type a listed. Re	nd SPECI ecord conv	FIC location. Non- versations and com	compliant work r munications with	must be specifically project designers,
					URS					
REGU 8		1.5X			2X			7:00 AM		:30 PM
			Show-l	Up Only				Expens	ses	
Reinforceme	ent Concrete	ПС	oncrete Placem	ent		☐ Ma	asonry	Reir	nforcement Maso	onry
_	rol				/Post Te	_	_	X Other	WE	ELDING
	··· — L			INSPE		•				
STARTED @:		1st TRUCK BATC	HED:				PLACEN	IENT:		
OBSERVAT	ION OF WELDI	NG L2X2X3/8X1'-	3" & L4X3X3/8	BX1'-3" @ S	OUTH I	BUILDIN	IG, WELI	DING 3 - 2" FILLE	ET WELDS	
		, COMPLETED V	•							
f		UTOMATIC, ELE								
		<u> </u>								
			· · · · · · · · · · · · · · · · · · ·						***************************************	
 										
							,			
										
	· · · · · · · · ·				·					
			· · · · · · · · · · · · · · · · · · ·			· · ·				
		·								
L										
				SAM	PLES	3				
SUPPLIER:									•	
MIXED NO	TICKET#	DESIGN SLUMP	MEASURED SLUMP	ADMIX	TURE	DESI	IGN PSI	CUBIC YARDS	SPECIMENS	AMB CONC.
Additional Pa	nge (Page #) CM				REP	ORT	Contair Does N	ns lot Contain	No	on-Compliant Items
	Cartifica	ntion of Compliance				ت ــــــــــــــــــــــــــــــــــــ				
knowledge the work d	of perjury that all of the	e above statements are ed by this report has ons and all applicable coo	true and the of my been performed ar					num of 4 hours for work ct and no work is perfor		urs = 8 hours minimum m charge will be applied
Inspectors Name		GORDON LE		<u>. </u>	Аррг	oved Au	thorized by			
Inspectors Signatu	ire Do	rdon j	Lewis	 .				(F	PROJECT SÜPERINTE	NI)
Inspectors License	#	C.W.I. 050	61091		Subr	nitted by				··



INSPECTOR CODE	JOB NUMBER	05-1425	DATE	Fe	bruary 22, 200	7		T F S S
JOB NAME University of California	of Riverside C.H.A.S	.S.	BUILD F	ERMITN	IUMBER / DSA /	OSHPD APP FI		Riverside
ADDRESS 3615 Canyon Crest Dr.	CITY	Riverside	1			. Amoroso	•	
ARCHITECT Leo Daily	ENGINEER Saiful/	Bouquet	SUBCO	NTRACTO	OR (If Any) CO\	WELCO / KRE	TSCHMAR & S	MITH
REQUIREMENTS: Limit of one j	b number one permit num	ber per sheet	t. Identify all work b	y type a	nd SPECIFIC I	location. Non-c	compliant work n	nust be specifically
identified. Communication (RFI S building and permit granting author		is non-compli	ant items must be i	istea. Ke	ecord conversa	wons and com	munications with	project designers,
			HOURS					
REGULAR	1.5X		2X			ME IN		ME OUT
8					7:0	00 AM	2	00 PM
] Show-Up	Only			Expens	es	
Reinforcement Concrete	Concre	te Placement		☐ Ma	asonry	Rein	forcement Masc	onry
Quality Control	Administration	□	Prestress/Post Te	nsion		X Other	WE	LDING
			INSPECTIO	N				
STARTED @:	1st TRUCK BATCHED	:	MET	HOD OF	PLACEMENT	Γ:		
OBSERVATION OF WEL	DING L2X2X3/8X1'-3" &	L4X3X3/8X	1'-3" @ SOUTH E	BUILDIN	IG, COMPLE	TED GRID LI	NE 1 ALL	
LEVELS, WELDING 3 - 2'	FILLET WELDS BOTH	SIDES PER	RFI #317. OBSE	RVATION	ON OF WELD	DING PRE CA	AST LINTEL	
SOUTH BUILDING LEVE								
PROCESS F.C.A.W. SEN	HAUTOMATIC, ELECTR	RODE E71T-	11 & E71T-8	, .				
WELDERS- ANDY & BRA	DY- CERTS ON FILE.						<u> </u>	
OBSERVATION OF WEL	DING 5" CHANNEL FOR	RAIR DUCT	SUPPORT IN EL	EVATO	OR 3 SHAFT A	ALL LEVELS.		
PROCESS S.M.A.W. MAN	NUAL, ELECTRODE 1/8	7018, ELEC	TRIC OVEN USI	D FOR	R LOW HYDR	OGEN ELEC	TRODES.	
WELDER -RYAN ROZA-								
ABOVE WELDS ARE WIT			OF A.W.S.D1.1					
			SAMPLES					
SUPPLIER:		·						
MIXED NO TICKET #	DESIGN SLUMP	MEASURED SLUMP	ADMIXTURE	DESI	IGN PSI C	UBIC YARDS	SPECIMENS	TEMPERATURE AMB CONC.
		CEONII						
						 		
L			<u> </u>		Contains		l	L
Additional Page (Page #) CM	l	***************************************	REP	ORT 🖂	Does Not C	contain	No	n-Compliant Items
Certi	fication of Compliance		All inc	nactions be	read on minimum o	of A house for work	performed over 4 ho	urs = 8 hours minimum
I declare under penalty of perjury that all of knowledge the work during the period of	vered by this report has been		n personal If insp					m charge will be applied
compliance with the approved plans specific Inspectors Name	ations and all applicable codes GORDON LEWIS		Appr	oved Au	thorized by	1))
Inspectors Signature	rdon Der	wi			· –	(P	ROJECT SUPERINTEN	IDENC)
Inspectors License #	C.W.I. 0506109	91	Subr	nitted by		is so f.		



INSPECTOR CODE	JOB NUMBI	ER 05-1425	DATE	Fe	bruary 23	. 2007	М	TW	T F S S
JOB NAME University of Calif	ornia of Riverside C	.H.A.S.S.	BUILD		-	OSA / OSHPD API	FILE#		Riverside
ADDRESS 3615 Canyon Cre		CITY Riverside	GENE	RAL CONT	RACTOR	S.J. Amoroso			1,000,0100
ARCHITECT Leo Daily	ENGINEER	Saiful/Bouquet	SUBC	ONTRACT	OR (If Any)	COWELCO / K	RETSC	HMAR & S	MITH
REQUIREMENTS: Limit of identified. Communication (building and permit granting	one job number one perm RFI Sketch, etc.) voiding	nit number per shee	iant items must be	listed. Re					
DECUMAR.		,	HOURS	;		That is			WE OUT
REGULÁR 8	1.5X		2X			7:00 AM			:00 PM
		Show-Up	Only			Expe	enses		
Reinforcement Concret	e	Concrete Placement	t	☐ Ma	asonry		einforce	ement Mase	onry
Quality Control	Administration	· 🗆	Prestress/Post	ension		X Othe	er	WE	ELDING
			INSPECTI	NC					
STARTED @:	1st TRUCK BAT	CHED:	ME	THOD OF	PLACEM	IENT:			
OBSERVATION OF N	VELDING L2X2X3/8X1	I'-3" & L4X3X3/8X	1'-3" TO BOX S	TUD HEA	NDER @	SOUTH BUILD	ING L	EVEL 4	
GRID LINE A / 1 - 6 0	OMPLETED, WELDIN	NG 3 - 2" FILLET V	WELDS PER RE	l #317 Sk	<-1	·····			
PROCESS F.C.A.W.	SEMIAUTOMATIC, EL	ECTRODE E71T-	-11						
WELDERS ANDY & I	BRADY - CERTS. ON I	FILE. ABOVE WEI	LDS ARE WITH	IN THE A	CCEPTA	NCE CRITERI	A OF A	A.W.S.D1.	1
									
					·				
									
	10 10 10 10 10 10 10 10 10 10 10 10 10 1	· · · · · · · · · · · · · · · · · · ·			· · · · ·				
					 				
			0.11015						
		· · · · · · · · · · · · · · · · · · ·	SAMPLE	<u>S</u>					
SUPPLIER:	T# DECICN CLUMD	MEASURED	ADMINITUDE	T per	ON DO	CUDIO VADDO	. L cn	TOMENIC.	TEMPERATURE
MIXED NO TICKE	T# DESIGN SLUMP	SLUMP	ADMIXTURE	DESI	GN PSI	CUBIC YARDS	SP	PECIMENS	AMB CONC.
				-			+		-
			<u> </u>	 					
<u></u>		<u> </u>	<u> </u>		Contain				
Additional Page (Page #	E) CM		RE	PORT		ot Contain	,,	No.	on-Compliant Items
	Certification of Compliand	ce c							urs = 8 hours minimum
I declare under penalty of perjury that knowledge the work during the per compliance with the approved plans s	od covered by this report has	s been performed and in	ii personai	pector is calle	ed to a projed	at and no work is perf	ormed a 2	2 hour minimu	m-charge will be applied
Inspectors Name	GORDON L	EWIS	Apı	proved Aut	horized by		(DDO) 150	T SUPERINTEN	
Inspectors Signature	Jordon J	ews_					(PROJEG	1 SUPERINTER	IDENI)
Inspectors License #	C.W.I. 05	061091	Sul	mitted by					



INSPECTOR CODE		JOB NUMBER	05-1425	<u> </u>	DATE	Fe	bruary 26		MTW	TFSS
JOB NAME Universi	ty of California of	Riverside C.F	i.a.s.s.		BUILD F	PERMIT	UMBER / E	OSA / OSHPD APP F	TLE#	Riverside
ADDRESS 3615 Ca	nyon Crest Dr.		CITY Riverside		GENER	AL CONT	RACTOR	S.J. Amoroso		
ARCHITECT Leo D	aily	ENGINEER	aiful/Bouquet		SUBCO	NTRACT	OR (If Any)	COWELCO / KR	ETSCHMAR & S	MITH
REQUIREMENTS:	Limit of one job	number one permit	number per she	et. Identify a	ill work b	y type a	nd SPECI	FIC location. Non-	compliant work r	nust be specifically
identified. Commu			evious non-comp	liant items r	nust be l	isted. Re	ecord conv	ersations and con	munications with	n project designers,
			w a.v		URS					
REGUL	AR	1.5X			2X			TIME IN	_	IME OUT
8	<u></u>							7:00 AM		:00 PM
			Show-U	p Only	:		 	Expen	ses	
☐ Reinforcemen	t Concrete	C	oncrete Placemer	nt			asonry _	Rei	nforcement Maso	
Quality Contro	ol [] Administration	□	Prestress	/Post Te	nsion		X Other	WE	ELDING
				INSPE	CTIC	N				
STARTED @:		1st TRUCK BATC	HED:		MET	HOD OF	PLACEN	IENT:		
OBSERVATI	ON OF WELDI	NG L2X2X3/8X1'-	3" & L4X3X3/8	X1'-3" TO E	BOX ST	UD HEA	ADER @	NORTH BUILDI	NG, WELDING	
3 - 2" FILLE	WELDS PER	RFI #317 - SK-1	& SSK-5, COM	PLETED W	/ELDIN	G LEVE	L 2 GRID	LINE LX / 18-2	8 & GRID LINE	
NX.5-23, IN	PROCESS OF V	WELDIG LEVEL :	3.							
PROCESS F	.C.A.W. SEMIA	UTOMATIC, ELE	CTRODE E711	T-11.						
WELDERS -	ANDY & BRAD	Y - CERTS. ON F	FILE							
THE ABOVE	WELDS ARE V	VITH IN THE AC	CEPTANCE CR	RITERIA OF	AWS	D1.1				
							· · · · · · ·			
			,							
			······································		•		· - · · ·			
		······································		,		·		· · · · · · · · · · · · · · · · · · ·		
<u> </u>				CANA	PLES					
				SAIVI	PLES					
SUPPLIER:		,	MEASURED	1		·		T	T	TEMPERATURE
MIXED NO	TICKET#	DESIGN SLUMP	SLUMP	ADMIX	TURE	DES	IGN PSI	CUBIC YARDS	SPECIMENS	AMB CONC.
									<u></u>	
						<u></u>				
Additional Pag	ge (Page #) CM				REP	ORT X	Contair	ns Iot Contain	No	on-Compliant Items
	Certifics	ation of Compliance	······································		 				<u></u>	
I declare under penalty of knowledge the work dur compliance with the appr	of perjury that all of the	e above statements are ed by this report has	true and the of my obeen performed and							urs = 8 hours minimum m charge will be applied
Inspectors Name _		GORDON LE			Appr	oved Au	thorized by			
Inspectors Signatur	e Dog	don Je	ws					(PROJECT SUPERINTE	NDENT)
Inspectors License	#	05061091	C.W.I.		Subr	nitted by		· · · · · · · · · · · · · · · · · · ·		



STRUCTURAL STEEL Testing & Inspection Report

3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

								1	1	т.	
INSPECTOR CODE	JOB NUMBER	05-	1425	Feb.	-26-0	7	M, T	l w	TF	S	S
JOB NAME UCR	Riversi	de C	a	04-	106468				DSA-FILE #	‡	
ADDRESS 1634 W 141	h 1 m	CITY	each Ca	CENEDAL CON	MOROS		mct.		JURISDICT 77.5		
ARCHITECT	ENGINEER	7		SUBCONTRAC	TOR (If Any)	<u> </u>) E + O 1	-		- (
REQUIREMENTS: Limit of one job specifically identified. Communica with project designers, building an	tion (RFI, Sketch	, etc.) void	ding previous no								
			НО	URS							
REGULAR	1.5X		2X	TIM	E IN	L	UNCH		TIM	E OUT	
4:00				7:00	ain				11:00	alr	?
☐ Re-Inspection		☐ Sho	w-Up Only _			_ [] Ex	xpenses				
Shop ☐ Fie									oling		
☐ Fireproofing					0			·	-		
of 45 gu as shown A-36 stee	urdrail on shee	fra t 3	ne and	of 47 s	ruaad R d plans	ail,	posī				
			- · · · · · · ·								
				_			-				
WELDER	CERTIFICAT	TION / EXP	IRATION DATE	1	WELDER		CERT	IFICATION	ON / EXPIR	ATION E	DATE
							-				
Floatrodo Ligad:											
Electrode Used:					☐ Contains						
☐ Additional Page (Page #) CI	M			REPORT	Does No		in	1	Non-Com	pliant l	Items
Certification I declare under penalty of perjury that all of personal knowledge the work during the per installed in compliance with the approved plan	iod covered by this re	s are true, ar eport has be	en performed and		based on minimum alled to a project and						
Inspector's Name <u>John</u>	<u>Kelen</u>			Approved	Authorized by	ma	W (PRO	JECT SU	PERINTENDE	NT)	-
Inspector's Signature		1.0?									
Inspector's License #	OFNY	-51		Submitted	by						



			1110	poone	,,,,,,,	OPOI	<u> </u>				
INSPECTOR CODE		JOB NUMBER	05-1425		DATE	Fel	oruary 27	, 2007	M T W	T	FSS
JOB NAME University of C	California of River	rside C.F	I.A.S.S.		BUILD F	PERMIT N	UMBER / D	OSA / OSHPD APP	FILE#		Riverside
ADDRESS 3615 Canyon			CITY Riverside		GENER.	AL CONTI	RACTOR	S.J. Amoroso			
ARCHITECT Leo Daily		TENGINEER	aiful/Bouquet		SUBCO	NTRACTO	OR (If Any)	COWELCO			
REQUIREMENTS: Limit	t of one job num	ber one permit	number per shee	et. Identify a	ll work b	y type ar	nd SPECII	FIC location. Non	-compliant wo	rk mus	t be specifically
identified. Communication	on (RFI Sketch, e	etc.) voiding pr	revious non-compl	liant items n	nust be l	isted. Re	cord conv	ersations and cor	nmunications	with pro	oject designers,
building and permit grant	ing additionty one	, ais.		HO	JRS						
REGULAR		1.5X		2	X			TIME IN		TIME	OUT
4								7:00 AM		11:00) PM
			Show-Up	Only			····	Exper	nses		
Reinforcement Con	crete	ПС	oncrete Placemen	ıt		☐ Ma	sonry	Re	inforcement M	lasonry	'
Quality Control		dministration		Prestress	Post Te	_				WELD	ING
				INSPE		-					
STARTED @:	1st	TRUCK BATC	:HED:	IIIOI L			PLACEM	IENT:			
				**DED 0.5	TAID		4 18/51	DING 4/4" FILL	ETWELD		
OBSERVATION O											
ALL AROUND PE											
AROUND SPACE						LATE. V	VELDING	3 ON STAIRS C	INGOING.		
PROCESS F.C.A.	W. SEMIAUTO	MATIC, ELE	CTRODE E71T	-8, NR 232	2.						
WELDERS CERT	S. ON FILE.										
					<u> </u>						
				SAM	PLES	}					
SUPPLIER:	· · · · · · · · · · · · · · · · · · ·										·
MIXED NO T	ICKET# DE	SIGN SLUMP	MEASURED SLUMP	ADMIX	TURE	DESI	GN PSI	CUBIC YARDS	SPECIME		EMPERATURE AMB CONC.
			<u> </u>						1		
		 									
 		···		-					-	_	
<u> </u>		 	<u>!</u>	<u> </u>	1	L	Contair	l			
Additional Page (Pa	ıge #) CM				REP	ORT 🖂		lot Contain		Non-C	Compliant Items
	Certification	of Compliance	•		Alline	pactions ha	ead on minir	num of 4 hours for wo	k performed over	4 hours :	= 8 hours minimum
! declare under penalty of perju								ct and no work is perfo			
knowledge the work during the compliance with the approved pl				installed in					1 -	/	
Inspectors Name	G	SORDON LE	WIS		Appr	oved Aut	horized b	, <u> </u>		1	
·		. 1	•						(PROJECT SUPER	NTENDEN	m)
Inspectors Signature _	Dord	on de	ws							V	
Inspectors License #		05061091	C.W.I.		Subr	mitted by					



INSPECTOR CODE		JOB NUMBER	05-14	25	DATE	ebruary 28	, 2007	M T W	FSS
JOB NAME University	of California of	Riverside C.H	.A.S.S.	•	BUILD PERMI	NUMBER / [SA / OSHPD APP FI	LE#	Riverside
ADDRESS 3615 Cany	yon Crest Dr.	····· · · · · · · · · · · · · · · · ·	CITY Riversid	le	GENERAL CO	VTRACTOR	S.J. Amoroso		
ARCHITECT Leo Dai	ily	ENGINEER Sa	iful/Bouquet		SUBCONTRAC	TOR (If Any)	COWELCO		
REQUIREMENTS: I identified. Communit building and permit g	cation (RFI Sket	tch, etc.) voiding pro	number per s evious non-co	mpliant items n	nust be listed.	and SPECI Record conv	FIC location. Non-cersations and com	compliant work n munications with	nust be specifically project designers,
REGULAI		1.5X			URS ×	-1	TIME IN	<u> </u>	ME OUT
8		1.57					7:00 AM		00 PM
			☐ Show	-Up Only			Expens	es	·
Reinforcement	Concrete	Cc	oncrete Placer	ment		Masonry _	Rein	forcement Maso	nry
Quality Control		Administration	[Prestress	/Post Tension		X Other	WE	LDING
				INSPE	CTION				
STARTED @:		1st TRUCK BATC	HED:		METHOD	OF PLACEM	IENT:		
OBSERVATIO	N OF WELDI	NG STAIR #2 @ L	EVEL 4, WI	ELDING STRI	NGER TO T	JBE STEEL	& DECKING PE	R DETAIL 9 / S	3-804
WELDING TU	BE STEEL LA	NDING LEVEL 4	RE.F. F / S-6	803, WELDIN	IG 1/4" FILLE	T WELD A	LL AROUND PER	R DETAIL 4 / S	-804.
WELDING PR	OCESS F.C.A	.W. SEMIAUTON	IATIC & S.M	I.A.W. MANUA	AL, ELECTRO	DDES E711	-8 & 1/8 7018.		
ELECTRIC O	/EN USED FO	R LOW HYDRO	SEN ELECT	RODES. WEL	DERS CERT	S. ON FILE			
THE ABOVE V	VELDS ARE V	VITHIN THE ACC	EPTANCE (CRITERIA OF	A.W.S. D1.1				
N PROCESS	OF MOVING T	O SOUTH BUILD	ING LEVEL	4 TO WELD	PRE CAST P	ANELS			
		- · · · · · · · · · · · · · · · · · · ·							
	· · · · · · · · · · · · · · · · · · ·				· · ·				
						····			
		<u>,</u>		 					
				· · · · · · · · · · · · · · · · · · ·			···········		
				· · · · · · · · · · · · · · · · · · ·				<u> </u>	
				SAM	PLES				
SUPPLIER:									
MIXED NO	TICKET#	DESIGN SLUMP	MEASURE SLUMP	D ADMIX	TURE DI	SIGN PSI	CUBIC YARDS	SPECIMENS	TEMPERATURE AMB CONC.
							_		
						-			
Additional Page	(Page #) CM				REPORT	Contain	ns lot Contain	No	n-Compliant Items
	Certifica	ation of Compliance			All inercetion	hased on mini	num of 4 hours for work	performed over 4 ho	urs = 8 hours minimum
I declare under penalty of knowledge the work durin compliance with the approv	ng the period cover	ed by this report has I	been performed		If inspector is	called to a proje	ct and no work is perform	ned a 2 hour minimu	n charge will be applied
Inspectors Name		GORDON LE	wis		Approved .	Authorized b		ROJECT SUPERINTEN	DENTO
Inspectors Signature	Do	don Je	ws				· ·		-
Inspectors License #		05061091	C.W.I		Submitted	by			····



INSPECTOR CODE		JOB NUMBER	05-1425		DATE	Ma	rch 1, 200	7	M	' W	χ		° °
JOB NAME Univers	sity of California o	f Riverside C.I	H.A.S.S.		BUILD F	PERMIT N	JMBER / E	SA / OSHPD APP	FILE#			Riversi	ide
ADDRESS	anyon Crest Dr.		CITY Riverside		GENER	ÃL CONTR	RACTOR	S.J. Amoroso		I			
ARCHITECT Leo I	Daily	ENGINEER Si	aiful/Bouquet	·	SUBCO	NTRACTO	R (If Any)	COWELCO					
identified. Commi	unication (RFI Sk	number one permi etch, etc.) voiding pr	t number per she evious non-com	eet. Identify a	II work to nust be I	y type an	d SPECII cord conv	FIC location. No ersations and co	n-comp	pliant work ications w	k mu: /ith p	st be sp roject de	ecifically esigners
building and perm	it granting authori	ty officials.	<u></u>	НО	URS					 -		·	
REGU	LAR	1.5X			2X			TIME IN	\equiv		TIME	OUT_	
8								7:00 AM			2:00) PM	
			Show-U	p Only				Expe	enses				
Reinforceme	nt Concrete	🗆 0	oncrete Placeme	nt		☐ Ma	sonry		einforc	ement Ma	isonr	у	
Quality Contr	rol [Administration	□	Prestress	/Post Te	nsion _		X Othe	er	v	VELE	DING	
				INSPE	CTIC	N							
STARTED @:	· · ·	1st TRUCK BATC	HED:		MET	HOD OF	PLACEM	ENT:					
OBSERVAT	ION OF WELD	ING PRE CAST P	ANELS TO L2)	(2X3/8", WI	LDING	3 SIDE	S 3/16 F	LLET WELD F	'ER A	PPROVE	<u>D</u>		
SKETCH, C	OMPLETED SO	OUTH BUILDING I	LEVEL 4 GRID	LINE 1-A.7	, A-1.3,	A-4, A-5	.5, TOT	AL OF 8 PRE (CAST	PANELS	·		
COMPLETE	D WELDING D	ECKING @ ELEV	ATOR 1 & 2 R	OOF, COM	PLETE	DECKI	NG @ D	OG HOUSE R	<u>00F (</u>	GRID LIN	IE C	.8-2.8,	<u> </u>
WELDING 1	1/2" PUDDLE E	VERY FLUTE, BU	TTON PUNCH	ING LAPS (@ 12" C	N CENT	TER.						
PROCESS	F.C.A.W. SEMI	AUTOMATIC & S.	M.A.W. MANU	AL, ELECTI	RODES	E71T-8	<u>& 1/8 70</u>	18.					
ELECTRIC	OVEN USED F	OR LOW HYDRO	GEN ELECTRO	DES, ABO	VE WE	LDS ARI	E WITHI	N THE ACCEF	TANC	E CRITE	ERIA	OF	
AWS D1.1													
WELDERS	CERTS. ON FI	_E											
												_	
		 						· · · · · · · · · · · · · · · · · · ·					
							 						
													
				SAM	PLES	3							
SUPPLIER:	· · · ·						,						
MIXED NO	TICKET#	DESIGN SLUMP	MEASURED SLUMP	ADMIX	TURE	DESI	GN PSI	CUBIC YARDS	s s	PECIMENS	5	TEMPER AMB (
Additional Pa	nge (Page #) CM				REP	ORT	Contair Does N	ns lot Contain			Non-	Complia	ant Items
	Certific	cation of Compliance						of A bassa farms			haum	= 9 hours	- minimum
knowledge the work d	uring the period cov	the above statements are ered by this report has tions and all applicable co	been performed and					num of 4 hours for we					
Inspectors Name		GORDON LE	wis		Appr	roved Aut	horized by		PROJE	CT SUPERIN	≥≤ FENDE	NTI)	
Inspectors Signatu	ıre <i>Do</i>	rdon I	euis_									•	
Inspectors License	e#	05061091	C.W.I.		Subr	mitted by							



INSPECTOR CODE		JOB NUMBER	05-142		DATE	Ma	arch 2, 20	07	MITW		FSS
JOB NAME Univers	ity of California of	Riverside C.F	I.A.S.S.		BUILD F	PERMIT	IUMBER/	OSA / OSHPD APP	FILE#	 	Riverside
ADDRESS 3615 Ca	anyon Crest Dr.		CITY Riverside		GENER	AL CONT	RACTOR	S.J. Amoroso			
ARCHITECT Leo I	Daily	ENGINEER Sa	iful/Bouquet		SUBCO	NTRACT	OR (If Any)	COWELCO			
identified. Commu	unication (RFI Ske	number one permit tch, etc.) voiding pr	number per sl	heet. Identify a	all work b nust be l	y type a isted. Re	nd SPECI	FIC location. No	n-compliant wo mmunications	rk must i with proj	be specifically ect designers,
building and permi	t granting authorit	y officials.		НО	URS						
REGUI	LAR	1.5X			2X			TIME IN		TIME O	UT
8								7:00 AM		2:00 F	^{>} M
			Show-	Up Only				Expe	nses		
Reinforceme	nt Concrete	Co	oncrete Placen	nent		<u></u> ма	asonry	R	einforcement M	asonry	
Quality Contr	ollo	Administration	[Prestress	/Post Te	nsion		X Othe	r	WELDIN	1G
				INSPE	CTIO	N					
STARTED @:		1st TRUCK BATC	HED:		MET	HOD OF	PLACEN	IENT:			
OBSERVAT	ION OF WELDI	NG L2X2X3/8X1'-	3" & L4X3X3	/8X1'-3" TO E	OX ST	UD HEA	ADER NO	RTH BUILDING	G LEVEL 3		
GRID LINE	LX / 18-22 & SO	UTH BUILDING L	EVEL 4 GRII	D LINE 6.3-A	.6, WEL	DING 3	3 - 2" FILL	ET WELDS BO	OTH SIDES C)F	
ANGLE PER	RFI #317 - SK	-1, PROCESS F.C	.A.W. SEMIA	AUTOMATIC	ELECT	RODE	E71T-11.	WELDERS CI	ERTS. ON FI	.E	
ABOVE WE	LDS ARE WITH	IN THE ACCEPTA	ANCE CRITE	RIA OF AWS	S D1.1.						
OBSERVAT	ION OF EPOXY	#5 DOWELS @	12" ON CEN	TER FOR CO	RBEL (@ STAI	R #6 GRI	D LINE 1 / B.6-	D FOUNDAT	ION	
LEVEL TO E	BASEMENT, RE	F. 1/ S-601, DRIL	LED 3/4" DIA	METER X 5"	EMBE	OMENT	, CLEAN	ED HOLES OU	T WITH GAS		
POWERED	BLOWER & NY	LON BRUSH, US	ED EPOXY H	IILTI HIT 150	, EXP. [DATE 0	7-07.				
				SAM	PLES						
SUPPLIER:										*	
MIXED NO	TICKET#	DESIGN SLUMP	MEASURED	ADMIX	TURE	DES	IGN PSI	CUBIC YARDS	SPECIMEN		MPERATURE MB CONC.
			SLUMP							- ^	IVID COINC.
	 					-					
				- 		-					
					1		Contair	1			
Additional Pa	ge (Page #) CM				REP	ORT		lot Contain		Non-Co	ompliant Items
	Certific	ation of Compliance	:		All ins	pections ba	ased on minir	num of 4 hours for wo	rk performed over	4 hours = 8	3 hours minimum
knowledge the work di	uring the period cove	ne above statements are red by this report has	been performed a					ct and no work is perf			
		ons and all applicable coo			١.		4l===!=== 1.7	4			
Inspectors Name		GORDON LE	WIS		Appr	oved Au	thorized by		(PROJECT SUPER	TENDENT)	
Inspectors Signatu	re Do	don d	ews						V		
Inspectors License	#	05061091	C.W.I.		Subr	nitted by					<u> </u>



INSPECTOR CODE		JOB NUMBER	05-1425	-!	DATE	Mar	ch 5, 200		M T W	TFSS
JOB NAME Universi	ity of California of	Riverside C.F	I.A.S.S.		BUILD F	PERMIT NU	JMBER / D	OSA / OSHPD APP F		Riverside
ADDRESS	anyon Crest Dr.		CITY Riverside	 	GENER.	AL CONTR	ACTOR	S.J. Amoroso	<u></u>	
ARCHITECT Leo D		ENGINEER	aiful/Bouquet		SUBCO	NTRACTO	R (If Any)	COWELCO		
REQUIREMENTS	Limit of one job	number one permit	number per she	et. Identify a	ll work b	y type an	d SPECI	FIC location. Non-o	ompliant work	must be specifically
identified. Commu building and permit			evious non-comp	liant items n	nust be I	isted. Rec	ord conv	ersations and com	munications wit	h project designers,
<u> </u>				HOI	URS					
REGUL	AR	1.5X		2	X			TIME IN		TIME OUT
4								7:00 AM		1:00 AM
			Show-U	p Only				Expens	es	
X Reinforcemen	nt Concrete	C	oncrete Placemei	nt		☐ Mas	sonry _	Rein	forcement Mas	onry
Quality Contr	ol [Administration	□	Prestress/	Post Te	nsion _		X Other	WE	ELDING
				INSPE	CTIC	N				
STARTED @:		1st TRUCK BATC	HED:		MET	HOD OF	PLACEM	IENT:		
OBSERVAT	ION OF WELDI	NG STAIR #2 LE	√EL 4, WELDIN	IG HANDR	AILS, P	ROCESS	F.C.A.	W. SEMIAUTOM	ATIC, ELECT	RODE
	ELDERS CERT									
CHECKED F	REINFORCEME	NT FOR CORBE	L @ FOUNDAT	ION LEVEL	TO BA	SEMEN	T, REIN	FORCEMENT 2-	#5 CONT. PE	R
		REA ACCEPTAE								
	-									
				- H.						

<u> </u>				SAM	PLES	;				
SUPPLIER:			·····							
MIXED NO	TICKET#	DESIGN SLUMP	MEASURED SLUMP	ADMIX	TURE	DESIG	SN PSI	CUBIC YARDS	SPECIMENS	TEMPERATURE AMB CONC.
	 		OLO.S.	 						
										
								:		
		L		<u> </u>	T	П	Contair	ns		
Additional Pa	ge (Page #) CM				REP	URI 🗵	Does N	lot Contain	No.	on-Compliant Items
	Certific	ation of Compliance	;		All ins	pections bas	ed on minir	murn of 4 hours for work	performed over 4 ha	ours = 8 hours minimum
I declare under penalty										um charge will be applied
knowledge the work du compliance with the app				i installed in			٠		, \	/
Inspectors Name		GORDON LE	:WIS		Appr	oved Auth	norized b)	
Inspectors Signatu	re Ann	don L	uis					THE P	PROJECT SUPERINTE	NUCHI)
Inspectors License		5009669-84 / 050	61001 C W I		Subr	nitted by				N
mapediors License	т	000 1 #0 - 6006000	01091 C.VV.I.		l Subi	miled by				



JOB NAME University of California of Riverside C.H.A.S. ADDRESS 3815 Carryon Crest Dr. ARCHITECT Leo Daily ENGINEER Salful/Bouquet SUBCONTRACTOR S.J. Amoroso REQUIREMENTS: Limit of one job number one permit number per sheet. Identify all work by type and SPECIFIC location. Non-compliant work must be identified. Communication (RFI Sketch, etc.) voiding previous non-compliant items must be listed. Record conversations and communications with project building and permit granting authority officials. HOURS REGUIAR 1.5X 2X TIME IN TIME OU 8 8 7:00 AM 1:00 PI 8 8 7:00 AM 1:00 PI 9 1	designers
ADDRESS 3615 Canyon Crest Dr. CITY Riverside ARCHITECT Leo Daily REQUIREMENTS: Limit of one job number one permit number per sheet. Identify all work by type and SPECIFIC location. Non-compliant work must be identified. Communication (RFI Sketch, etc.) volding previous non-compliant items must be fisted. Record conversations and communications with project building and permit granting authority officials. HOURS REGULAR 1.5X 2X TIME IN TIME OU Show-Up Only Expenses Reinforcement Concrete Schow-Up Only Prestress/Post Tension Other INSPECTION STARTED @: 1st TRUCK BATCHED: METHOD OF PLACEMENT: OBSERVATION OF CONCRETE PLACEMENT @ FOUNDATION ELEVATOR #4, CORBEL @ SOUTH BUILDING LEVEL 1 TO BASEMENT GRID LINE 1 / C-D & STAIR #4 @ BASE. PLACED APPROXIMATELY 10 CU. YDS. ROBERTSON'S CONCRETE MIX #44243, 5000 P.S.I., USED ELECTRIC VIBRATOR FOR CONSOLIDATION, MADE 1 SET OF 4 SAMPLES @ ELEVATOR #4	designers
REQUIREMENTS: Limit of one job number one permit number per sheet. Identify all work by type and SPECIFIC location. Non-compliant work must be identified. Communication (RFI Sketch, etc.) voiding previous non-compliant items must be listed. Record conversations and communications with project building and permit granting authority officials. HOURS REGULAR 1.5X 2X TIME IN TIME OU 8 7:00 AM 1:00 Pt	designers
identified. Communication (RFI Sketch, etc.) voiding previous non-compliant items must be listed. Record conversations and communications with project building and permit granting authority officials. HOURS REGULAR	designers
REGULAR 1.5X 2X TIME IN TIME OU 7:00 AM 1:00 PI Show-Up Only Expenses Reinforcement Concrete X Concrete Placement Nasonry Reinforcement Masonry NSPECTION STARTED @: 1st TRUCK BATCHED: METHOD OF PLACEMENT: OBSERVATION OF CONCRETE PLACEMENT @ FOUNDATION ELEVATOR #4, CORBEL @ SOUTH BUILDING LEVEL 1 TO BASEMENT GRID LINE 1 / C-D & STAIR #4 @ BASE. PLACED APPROXIMATELY 10 CU:YDS. ROBERTSON'S CONCRETE MIX #44243, 5000 P.S.I., USED ELECTRIC VIBRATOR FOR CONSOLIDATION, MADE 1 SET OF 4 SAMPLES @ ELEVATOR #4	
Reinforcement Concrete Show-Up Only Expenses Reinforcement Concrete Concrete Placement Masonry Reinforcement Masonry Quality Control Administration Prestress/Post Tension Other INSPECTION STARTED @: 1st TRUCK BATCHED: METHOD OF PLACEMENT: OBSERVATION OF CONCRETE PLACEMENT @ FOUNDATION ELEVATOR #4, CORBEL @ SOUTH BUILDING LEVEL 1 TO BASEMENT GRID LINE 1 / C-D & STAIR #4 @ BASE. PLACED APPROXIMATELY 10 CU.YDS. ROBERTSON'S CONCRETE MIX #44243, 5000 P.S.I., USED ELECTRIC VIBRATOR FOR CONSOLIDATION, MADE 1 SET OF 4 SAMPLES @ ELEVATOR #4	
Reinforcement Concrete Concrete Placement Masonry Reinforcement Masonry Quality Control Administration Prestress/Post Tension Other INSPECTION STARTED @: 1st TRUCK BATCHED: METHOD OF PLACEMENT: OBSERVATION OF CONCRETE PLACEMENT @ FOUNDATION ELEVATOR #4, CORBEL @ SOUTH BUILDING LEVEL 1 TO BASEMENT GRID LINE 1 / C-D & STAIR #4 @ BASE. PLACED APPROXIMATELY 10 CU.YDS. ROBERTSON'S CONCRETE MIX #44243, 5000 P.S.I., USED ELECTRIC VIBRATOR FOR CONSOLIDATION, MADE 1 SET OF 4 SAMPLES @ ELEVATOR #4	
Reinforcement Concrete Concrete Placement Masonry Reinforcement Masonry Quality Control Administration Prestress/Post Tension Other INSPECTION STARTED @: 1st TRUCK BATCHED: METHOD OF PLACEMENT: OBSERVATION OF CONCRETE PLACEMENT @ FOUNDATION ELEVATOR #4, CORBEL @ SOUTH BUILDING LEVEL 1 TO BASEMENT GRID LINE 1 / C-D & STAIR #4 @ BASE. PLACED APPROXIMATELY 10 CU.YDS. ROBERTSON'S CONCRETE MIX #44243, 5000 P.S.I., USED ELECTRIC VIBRATOR FOR CONSOLIDATION, MADE 1 SET OF 4 SAMPLES @ ELEVATOR #4	
Quality Control	
STARTED @: 1st TRUCK BATCHED: METHOD OF PLACEMENT: OBSERVATION OF CONCRETE PLACEMENT @ FOUNDATION ELEVATOR #4, CORBEL @ SOUTH BUILDING LEVEL 1 TO BASEMENT GRID LINE 1 / C-D & STAIR #4 @ BASE. PLACED APPROXIMATELY 10 CU.YDS. ROBERTSON'S CONCRETE MIX #44243, 5000 P.S.I., USED ELECTRIC VIBRATOR FOR CONSOLIDATION, MADE 1 SET OF 4 SAMPLES @ ELEVATOR #4	
OBSERVATION OF CONCRETE PLACEMENT @ FOUNDATION ELEVATOR #4, CORBEL @ SOUTH BUILDING LEVEL 1 TO BASEMENT GRID LINE 1 / C-D & STAIR #4 @ BASE. PLACED APPROXIMATELY 10 CU.YDS. ROBERTSON'S CONCRETE MIX #44243, 5000 P.S.I., USED ELECTRIC VIBRATOR FOR CONSOLIDATION, MADE 1 SET OF 4 SAMPLES @ ELEVATOR #4	
BASEMENT GRID LINE 1 / C-D & STAIR #4 @ BASE. PLACED APPROXIMATELY 10 CU.YDS. ROBERTSON'S CONCRETE MIX #44243, 5000 P.S.I., USED ELECTRIC VIBRATOR FOR CONSOLIDATION, MADE 1 SET OF 4 SAMPLES @ ELEVATOR #4	
MIX #44243, 5000 P.S.I., USED ELECTRIC VIBRATOR FOR CONSOLIDATION, MADE 1 SET OF 4 SAMPLES @ ELEVATOR #4	
#4	,
SAMPLES	~~~~
SAMPLES	
SAMPLES	
SAMPLES	
SAMPLES	
SUPPLIER: ROBERTSON'S	
MIXED NO TICKET # DESIGN SLUMP MEASURED ADMIXTURE DESIGN PSI CURIC YARDS SPECIMENS TEM	
44243 4953553 4 5 5000 10 4 72	ERATURE
	ERATURE CONC. 75
	CONC.
Additional Page (Page #) CM REPORT Ocean Non-Com	CONC.
Certification of Compliance All inspections based on minimum of 4 hours for work performed over 4 hours = 8 h	CONC.
I declare under penalty of perjury that all of the above statements are true and the of my own personal knowledge the work during the period covered by this report has been performed and installed in	75
compliance with the approved plans specifications and all applicable codes	75 liant Items
Inspectors Name GORDON LEWIS Approved Authorized by	75 liant Items
	75 liant Items



			11.65	Specific	/ 1 1 1	CPUIL								
INSPECTOR CODE		JOB NUMBER	05-1425		DATE March 8, 2007 M T W T X							F	S	S
JOB NAME Univers	sity of California of F	Riverside C.H	I.A.S.S.		BUILD F	PERMIT NÛ	JMBER / E	OSA / OSHPD APP	FILE	#		Rive	rside	
IADDRESS	anyon Crest Dr.		CITY Riverside		GENER	AL CONTR	RACTOR	S.J. Amoroso						
ARCHITECT Leo	Daily	ENGINEER Sa	aiful/Bouquet		SUBCO	NTRACTO	R (If Any)	COWELCO						
identified. Commi	: Limit of one job nunication (RFI Sketo) it granting authority	ch, etc.) voiding pr	t number per she evious non-comp	eet. Identify a pliant items n	ll work to	y type an isted. Red	d SPECI cord conv	FIC location. No ersations and co	n-com mmu	pliant w	ork m s with	ust be project	speci desig	ifically gners,
<u> </u>				НО	URS									
REGU		1.5X			ΣX			TIME IN				ME OUT		
8								7:00 AM		<u></u>		30 PM		
			☐ Show-U	p Only				Expe	enses					
Reinforceme	nt Concrete	X C	oncrete Placeme	nt		☐ Mas	sonry _	Re	einfon	cement l	Masoı	nry _		
Quality Conti	rol 🗖	Administration	□	Prestress.	/Post Te	nsion _		X Othe	er		WE	DING		
				INSPE	CTIC	N								
STARTED @:		1st TRUCK BATC	HED:		··	HOD OF	PLACEM	IENT:						
ORSERVAT	TION OF CONCRE	ETE PI ACEMEN	NT @ NORTH I	BUII DING F	ROOF N	MECHAN	ICAL CI	JRBS, PLACEI	O API	PROXII	MATE	LY		
	S. ROBERTSON'S													
	T OF 4 SAMPLES		NOINE IL WIDE	7011000012	, 0020	LLLOII	110 110.		<u> </u>					
	ION OF WELDIN		ANELS & SOL	ITH BLU DI	NG LEV	/FL 4 GF	SID I INE	-63-Δ7 Δ2-3		-26 LF	 -\/F)	3		
	1 / D-H, WELDIN								<u>' </u>	2.0, E.		<u> </u>		
	L2X2X3/8X1'3" & I								INE 1	/46-				
						III DOILL	JING EL	VLL 3 ONID L	INL	7 A.O -	<u>U,</u>			
	3 - 2" FILLET WEI					OF ODIT		E AMC D4 4						
WELDERS	CERTS. ON FILE	, ABOVE WELD	S ARE WITHIN	N THE ACC	EPIAN	CE CKII	EKIAU	F AVVS D1.1.						·
							***	***						
		<u> </u>												
														
r				SAM	PLES	·								
SUPPLIER:		ROBERTSON'S	S MEASURED	- -		·		T				TEMP	TAG:	- אמור
MIXED NO	TICKET#	DESIGN SLUMP	SLUMP	ADMIX	TURE	DESIG		CUBIC YARDS	, S	SPECIME	:NS	AMB	COI	NC.
CHJ05372	4953642	4"	4 1/2"			50	00	10	\bot	4		55	7	70
Additional Pa	age (Page #) CM	, .		· · · · · · · · · · · · · · · · · · ·	REP	ORT 🗆	Contair Does N	ns lot Contain			Nor	n-Comp	liant	Items
	Certificat	tion of Compliance)		All ine	nections has	ed on minin	num of 4 hours for wo	ork perf	ormed ove	r 4 hor	rs = 8 ho	ırs mir	nimum
knowledge the work d	of perjury that all of the uring the period covere proved plans specification	d by this report has	been performed and					ct and no work is perf						
Inspectors Name		GORDON LE	WIS		Аррг	oved Auth	orized by		<u>_</u> }					
Inspectors Signatu	ire Do	don	Teura		:				(PROJ	ECT SUPER	INTEN	JENT)		25 (4) (2) (4) (4) (2)
Inspectors License	:#	5009669-48 / CV	VI 05061091		Subr	nitted by			v ₄ ⁷	1			*.*	\$ 11



INSPECTOR CODE	JOB NUMB	ER 05-1425		DATE Ma	arch 9, 2007		MTW	T F X	s s	
JOB NAME University of Califo	mia of Riverside C	.H.A.S.S.	E	BUILD PERMIT N	IUMBER / DS/	A / OSHPD APP	FILE#	Rivers	side	
ADDRESS 3615 Canyon Cres	t Dr.	CITY Riverside	C	SENERAL CONT	RACTOR S	.J. Amoroso				
ARCHITECT Leo Daily	ENGINEER	Saiful/Bouquet	S	SUBCONTRACT	OR (If Any)	OWELCO				
REQUIREMENTS: Limit of cidentified. Communication (R	ne job number one perr	nit number per she	et. Identify all	work by type a	nd SPECIFIC	C location. Non	-compliant work a	must be sp	pecifically	
building and permit granting a		previous non-comp								
REGULAR	1.5X		HOU			TIME IN	- 1 7	IME OUT		
P)	1.37			· · · · · · · · · · · · · · · · · · ·		:00 AM		:00 PM		
		Show-U	p Only			Expe	nses			
Reinforcement Concrete		Concrete Placeme			asonry		inforcement Maso	onry		
Quality Control		, <u> </u>						ELDING		
			INSPEC	CTION		-				
STARTED @:	1st TRUCK BAT	CHED:	11101 20	METHOD OF	PLACEME	NT:				
OBSERVATION OF IN	ISTALLING & MELDI	NC SHIDS I VDL	NED @ NODI	THE BLUE DING	STAID #2	POOE LEVE	WELDING 3/	16"		
FILLET WELD 3 SIDE										
			•	INUAL, ELEC	TRODE I/C) /UIO, ELEC	I KIC OVEN US	פבט		
FOR LOW HYDROGE										
ABOVE WELDS ARE	WITHIN THE ACCEP	TANCE CRITER	IA OF A.W.S	5.D1.1		<u></u>				
										
		· · · · · · · · · · · · · · · · · · ·								
						···		····		
	·	····								
		······································								
			SAMP	LES						
SUPPLIER:								T TEMBE	DATUBE.	
MIXED NO TICKE	T# DESIGN SLUMF	MEASURED SLUMP	ADMIXTL	JRE DES	IGN PSI	CUBIC YARDS	SPECIMENS		CONC.	
Additional Page (Page #) CM			REPORT	Contains Does Not	Contain	No	on-Compli	ant Items	
	\			ــــــــــــــــــــــــــــــــــــــ	DOCS 1101	Contain		*		
I declare under penalty of perjury that knowledge the work during the peri compliance with the approved plans sp	od covered by this report ha	re true and the of my o					rk performed over 4 ho ormed a 2 hour minimu			
Inspectors Name	GORDON L			Approved Au	thorized by	1)	(PROJECT SUPERINTE)	NDENTO	 	
Inspectors Signature	Jordon T	cus					, MOLOI SOPERINIES	www.		
Inspectors License #										



INSPECTOR CODE		JOB NUMBER		or	DATE		2007	MTW	TF	SS			
JOB NAME University of	of California of Riv	verside C.H	.A.S.S.	120	BUILD PERM	March 13, 2 IT NUMBER 7	DSA / OSHPD APP	X	Rive	rside			
ADDRESS	on Crest Dr.		CITY Riversio	10	GENERAL CO	ONTRACTOR	S.J. Amoroso						
ARCHITECT Leo Dail		ENGINEER Sa	iful/Bouquet		SUBCONTRA	CTOR (If Any							
REQUIREMENTS: L	mit of one job nu	mber one permit	number per	sheet. Identify a	il work by typ	e and SPEC	IFIC location. Non	-compliant work	must be s	pecifically			
identified. Communic building and permit gr			evious non-co	ompliant items r	nust be listed	. Record cor	versations and cor	nmunications wit	h project	designers,			
banding and pointing.	anting dudionty of	inolato.		НО	URS								
REGULAR		1.5X			2X		TIME IN		IME OUT				
4						<u> </u>	10:00 AM	2	2:00 PM				
			☐ Show	v-Up Only			Exper	ises					
Reinforcement C	Concrete	Co	ncrete Place	ment		Masonry		inforcement Mas	onry				
Quality Control		Administration		Prestress	/Post Tension		X Other	WELDI	NG / EPC	XY			
				INSPE	CTION								
STARTED @:	1:	st TRUCK BATC	HED:		METHOD	OF PLACE	MENT:						
WELDING WA	S NOT PERFO	RMED TODAY,	MASS STE	EL WELDER	DID NOT H	AVE PHOT	O ID ACCOMPAI	NIED WITH WI	LD				
CERTIFICATIO	N PAPERS.			······································									
OBSERVED DI	RILLING 5/8" DI	AMETER X 4"	DEPTH@1	18" ON CENTE	ER FOR ME	CHANICAL	PAD @ ELECTF	RICAL ROOM					
SOUTH BUILD	SOUTH BUILDING GRID LINE 2.8-C.5, LEVEL 1, 2, & 3.												
					·								
							······································		·····				
						<u> </u>			_				
								·					
				SAM	PLES								
SUPPLIER:													
MIXED NO	TICKET#	DESIGN SLUMP	MEASURE SLUMP	D ADMIX	TURE D	ESIGN PSI	CUBIC YARDS	SPECIMENS		RATURE CONC.			
				· · · · · · · · · · · · · · · · · · ·	REPORT	Conta	ins	· · · · · · · · · · · · · · · · · · ·					
Additional Page	(Page #) CM				REPORT	X Does	Not Contain	N	on-Comp	liant Items			
	Certification	on of Compliance			All inspection	ns based on mir	imum of 4 hours for wor	, k performed over 4 h	ours = 8 hou	ırs minimum			
I declare under penalty of p							ect and no work is perfo						
compliance with the approve				aria matanea m				. 1 2					
Inspectors Name		GORDON LE	wis		Approved	Authorized		(PROJECT SUPERINTE	MDEND				
Inspectors Signature	Dora	lon Je	wis					WARE SOLETING	DENI)				
Inspectors License #		5009669	-48		Submitted	l by							



INSPECTOR CODE		JOB NUMBER	05-1	 425	DATE	Ma	erch 14, 20	007	M T W	TFSS		
JOB NAME University of Ca	ilifornia of River	rside C.F	I.A.S.S.	*	BUILD F	PERMIT	IUMBER / D	SA / OSHPD APP FI	LE#	Riverside		
ADDRESS 3615 Canyon C	rest Dr.		CITY Riversi	de	GENER	AL CONT	RACTOR	S.J. Amoroso				
ARCHITECT Leo Daily	Y A	ENGINEER Sa	aiful/Bouquet	•	SUBCO	NTRACT	OR (If Any)	COWELCO / MAS	S STEEL			
REQUIREMENTS: Limit	of one job numl	ber one permit	number per	sheet. Identi	fy all work b	y type a	nd SPECII	IC location. Non-c	compliant work n	nust be specifically		
identified. Communication building and permit granting			evious non-c	ompliant iten	ns must be l	isted. Re	ecord conv	ersations and com	munications with	project designers,		
	<u>~</u>			Н	OURS				· ·			
REGULAR		1.5X			2X			TIME IN		ME OUT		
8								7:00 AM	2:	30 PM		
			Show	w-Up Only _				Expens	es			
Reinforcement Conc	rete	_	oncrete Place	ement		☐ Ma	asonry	Rein	forcement Maso	onry		
Quality Control	A	dministration		Prestr	ess/Post Te	nsion		X Other	WELDIN	IG / EPOXY		
			_	_ INSI	PECTIC	N						
STARTED @:	1st	TRUCK BATC	HED:				PLACEM	ENT:	,			
OBSERVATION O	FPOXY #4 I	OWELS 18"	ON CENTE	ER FOR ME	CHANICA	L PADS	@ ELEC	TRICAL ROOMS	NORTH & SO	OUTH		
BUILDINGS LEVE												
DRILLED 5/8" DIA			•									
				,						NI NI		
USED HILTI HIT 150, EXP. DATE 07-07. ABOVE AREAS WERE BUSHED WITH ELECTRIC ROTOR HAMMER TO ROUGHEN												
SURFACE.	- 14/51 DING 1		N E 001 105	- DI ATE O	COUTUR	LIII DINI	C L D/EL	A CRID LINE D	2 / 9 4 44			
OBSERVATION O	· · · · · · · · · · · · · · · · · · ·						G LEVEL	Z GRID LINE D.	0/0.1-11			
GRID LINE 11 / A.								D 0 1 EVEL 0 0F	DID LINE 4 / C	11		
COMPLETED WEI						GRID L	INE 1/B	-D & LEVEL 2 GF	RID LINE 17 C	- H ,		
WELDING 3/16 FIL												
COMPLETED WEI						OUTH	BULDING	LEVEL 4 GRID	LINE 1 / B-D.			
WELDING 3 - 2" F	LLET WELDS	S BOTH SIDE	S OF ANG	LE PER RF	1 #317.							
ABOVE WELDS A	RE WITHIN T	HE ACCEPTA	ANCE CRIT				 .		<u></u>			
		· · · · · · · · · · · · · · · · · · ·		SA	MPLES							
SUPPLIER:									•			
MIXED NO TIC	KET# DE	SIGN SLUMP	MEASURE SLUMP		MIXTURE	DES	IGN PSI	CUBIC YARDS	SPECIMENS	AMB CONC.		
			Į.									
Additional Page (Pag	e #) CM				REP	ORT	Contair	ns lot Contain	No	n-Compliant Items		
	Codification	of Compliance						or commi				
I declare under penalty of perjury knowledge the work during the compliance with the approved pla	that all of the abor	ve statements are this report has	true and the of been performed		al If insp			num of 4 hours for work		urs = 8 hours minimum m charge will be applied		
Inspectors Name	G	ORDON LE	WIS -		– Appr	oved Au	thorized by		ROJECT SURERINTEN	IDENT)		
Inspectors Signature	Dord	on	lews		_							
Inspectors License #	5009	9669-85 / CV	VI 05061091	1	Subr	nitted by	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				



INSPECTOR CODE		JOB NUMBER		<u>opoone</u>	DATE	•	rch 16, 2		М	TW	Т	FX	S S
JOB NAME Univers	sity of California of	Riverside C.I	H.A.S.S.	· ·	BUILD I			OSA / OSHPD AP	P FILE	#		Rivers	ida
ADDRESS	anyon Crest Dr.		CITY Riverside	<u> </u>	GENER	AL CONT	RACTOR	S.J. Amoroso				Nivers	side
ARCHITECT Leo I		ENGINEER	aiful/Bouquet		SUBCO	NTRACTO	OR (If Any)						
REQUIREMENTS	: Limit of one job unication (RFI Ske	number one permitch, etc.) voiding pr	t number per she	eet. Identify a oliant items n	II work b nust be I	by type a	nd SPECI cord conv	FIC location. No	on-com	npliant work nications w	th p	st be sp roject d	pecifically lesigners,
					URS								
REGU		1.5X			2X			7:00 AM				OUT PM	
	1		C Show II	p Only					enses				
					····		•					====	
Reinforceme			oncrete Placeme				asonry			cement Ma		V DING	
Quality Contr	lo] Administration						X Othe	er <u> </u>	•	VLLL	1110	
OTI DTED O		L . TD. 1014 DATO	uen	INSPE									
STARTED @:		1st TRUCK BATC	HED:		MEI	HOD OF	PLACEN	IENT:					
OBSERVAT	ION OF WELDI	NG L2X2X3/8X1'	3" & L4X3X3/8X	(1'3" TO BC	X STU	D HEAD	ER @ N	ORTH BUILDI	NG L	VEVEL 4			
GRID LINE	LX / 18-23. WEL	DING 3 - 2" FILL	ET WELDS BO	TH SIDES	OF AN	GLE PE	R RFI #3	17.					
PROCESS I	F.C.A.W. SEMIA	UTOMATIC. ELE	CTRODE E711	Γ-11, WELD	ERS C	ERTS C	N FILE.	<u> </u>					
ABOVE WE	ABOVE WELDS ARE WITHIN THE ACCEPTANCE CRITERIA OF A.W.S.D1.1												
			·					· · · · · · · · · · · · · · · · · · ·					
	· · · · · · · · · · · · · · · · · · ·												
			···										
L.,	·· · · · · ·			0.4.14	DI EC				·				
				SAM	PLES	<u> </u>		· - · · · · · · · · · · · · · · · · · ·					 1
SUPPLIER:		1	MEASURED			1		,				render	RATURE
MIXED NO	TICKET#	DESIGN SLUMP	SLUMP	ADMIXT	TURE	DESI	GN PSI	CUBIC YARDS	5 5	SPECIMENS		AMB (
	-, ····										\perp		
Additional Pa	ge (Page #) CM				REP	ORT 🗆	Contair Does N	ns lot Contain		N	Non-(Compli	ant Items
	Certifica	ation of Compliance			A U form			af 4 h a fan					
knowledge the work du	uring the period cover	e above statements are red by this report has ons and all applicable coo	been performed and					num of 4 hours for work and no work is per					
Inspectors Name		GORDON LE	WIS		Аррг	oved Aut	horized by			ECT SUPERINT	ENDE		
Inspectors Signatu	re Do	rdon I	euro					100	(FKW)	LOI SUPERINI	≓.4Ŋ <u>F</u> [•••	
Inspectors License	#	C.W.I. 050	61091		Subn	nitted by		· SE		<u> </u>			



INSPECTOR CODE		JOB NUMBER	05-14	125	DATE	Ma	arch 19, 20	07	M	TW	TT	F	SS
JOB NAME Univers	ity of California of	Riverside C.F	I.A.S.S.		BUILD F		-	SA / OSHPD APP		<i>'</i>		I Riversi	ide
ADDRESS 3615 Ca	anyon Crest Dr.		CITY Riversio	de	GENER	AL CONT	TRACTOR	S.J. Amoroso		· •			
ARCHITECT Leo I	Daily	ENGINEER Sa	iful/Bouquet		SUBCO	NTRACT	OR (If Any)	COWELCO					
REQUIREMENTS	: Limit of one job	number one permit	number per	sheet. Identify a	all work b	y type a	nd SPECIF	IC location. No	n-com	pliant work	must	be sp	ecifically
building and permi		tch, etc.) voiding pr y officials.	evious non-co	ompliant items r	must be I	isted. Re	ecora conve	ersations and co	ommur	ncations w	ıın pro	ject ae	esigners,
<u> </u>	<u></u>			НО	URS								
REGUI	AR	1.5X			2X			TIME IN			TIME		
8								7:00 AM	1		2:30	РМ	
	-		Shov	v-Up Only			15. · · · · · · · · · · · · · · · · · · ·	Expe	enses				
Reinforcement	nt Concrete	Co	oncrete Place	ment		Ma	asonry	R	einford	ement Ma	sonry		
Quality Contr	ol	Administration		Prestress	/Post Te	nsion		X Othe	er		/ELDI	NG	
				INSPE	CTIC	N						 	
STARTED @:		1st TRUCK BATC	HED:		MET	HOD OF	F PLACEME	ENT:					
OBSERVAT	ION OF WELDI	NG L2X2X3/8X1'3	3" & L4X3X3	/8X1'3" TO BO	OX STU	D HEAL	DER @ NO	ORTH BUILDI	NG LE	VEL 3			
COMPLETE	D GRID LINE P	X / 18.5-21.5, IN I	PROCESS C	F WELDING	GRID L	INE L. \	WELDING	3 - 2" FILLET	WEL	DS BOTH	<u> </u>		
SIDES OF A	NGLE PER R.F	.i. #317. PROCES	S F.C.A.W.	SEMIAUTON	MATIC, E	LECT	RODE E71	T-11.					
WELDERS	CERTS ON FILE	=.											
ABOVE WE	LDS ARE WITH	IN THE ACCEPT	ANCE CRIT	ERIA OF A.W	V.S.D1.1								
										•			··
								*****			•••		
													
	<u> </u>												
		 											
				SAM	IPLES	·							
SUPPLIER:													
MIXED NO	TICKET#	DESIGN SLUMP	MEASURE SLUMP	D ADMIX	TURE	DES	IGN PSI	CUBIC YARDS	s s	PECIMENS		AMB C	CONC.
LL		4		 			Contains	s					
Additional Pa	ge (Page #) CM				REP	ORT	Does No	ot Contain		<u> </u>	Non-C	omplia ———	ınt Items
	Certifica	ation of Compliance			All ins	pections b	ased on minim	um of 4 hours for w	ork perfo	rmed over 4	hours =	8 hours	minimum
		ne above statements are red by this report has			If insp	ector is cal	lled to a project	t and no work is per	formed a	a 2 hour minin	num cha	arge will !	be applied
		ons and all applicable cod						. ,		\ _		,	
Inspectors Name		GORDON LE	WIS		Аррг	oved Au	thorized by		(PRO	CT SUPERINT	ENDER		
Inspectors Signatu	re <i>Do</i> 2	don Je	wis						, rout	_5, 50i ENRII	7	•	
Inspectors License	#	05061091	C.W.I.		Subr	nitted by	,						·
									100				



			1110	POOLIGIT	OP U.	•					
INSPECTOR CODE		JOB NUMBER	05-1425	DATE	Ma	arch 20, 20	07	M T W	T	F	SS
JOB NAME Univers	sity of California of	Riverside C.I	I.A.S.S.	BUILD	PERMIT	IUMBER / D	SA / OSHPD APP	FILE#		River	side
ADDRESS	anyon Crest Dr.		CITY Riverside	GENE	RAL CONT	RACTOR	S.J. Amoroso	· · · · · · ·			
ARCHITECT Leo I	 	ENGINEER	aiful/Bouquet	SUBC	NTRACT	OR (if Any)	COWELCO				
REQUIREMENTS	: Limit of one job	number one permi	t number per shee	t. Identify all work	by type a	nd SPECIF	IC location. Non	-compliant wor	k mu	st be s	pecifically
identified. Commi building and perm		etch, etc.) voiding pr	revious non-compl	iant items must be	listed. Re	ecord conve	ersations and co	nmunications v	with p	roject o	lesigners,
banding and point	r granding dealers	, •		HOURS							
REGU	LAR	1.5X		2X			TIME IN			OUT	
8							7:00 AM		2:00) PM	
			Show-Up	Only			Expe	nses			
Reinforceme	nt Concrete	C	oncrete Placemen	t		asonry		inforcement Ma	asonr	у	
Quality Contr	roi [Administration		Prestress/Post T	ension		X Other	·\	WELL	ING	
_		-		INSPECTION	NC						
STARTED @:		1st TRUCK BATC	HED:			PLACEM	ENT:				
OPSERVAT	TON OF WELD	NG L2X2X3/8X1'-	2" 9 1 4V2V2/9V	1' 3" TO BOY 9	IID HE	ADER @ N	NORTH RUIL D	ING LEVEL 3			
		LINE 12 / L-Q, G							<u> </u>		
		F.C.A.W. SEMIAL		CTRODE E711-	11. WEL	DERS CE	RIS ON FILE.				
IN PROCES	SS OF WELDING	S LEVEL 2 GRID	LINE PX.				· · · · · · · · · · · · · · · · · · ·			 	
ABOVE WE	LDS ARE WITH	IIN THE ACCEPT	ANCE CRITERIA	4 OF A.W.S.D1.	<u> </u>						
											
			 								
		<u> </u>									
l,			4 .	SAMPLE	 S						
SUPPLIER:											
MIXED NO	TICKET#	DESIGN SLUMP	MEASURED SLUMP	ADMIXTURE	DES	IGN PSI	CUBIC YARDS	SPECIMEN	s		RATURE CONC.
									\top		
			1						\top		
	*L =			 	 			 	+		
<u> </u>		I	L	<u> </u>	<u></u>	l Contain	<u> </u>				<u> </u>
Additional Pa	ige (Page #) CM	 		RE	PORT		ot Contain		Non-	Compli	iant Items
	Certific	ation of Compliance	•	Allir	spections b	ased on minim	ium of 4 hours for wo	rk performed over 4	4 hours	= 8 hour	rs minimum
		ne above statements are ared by this report has		n personal If ins	pector is cal	led to a projec	t and no work is perfo	ormed a 2 hour min	imum c	harge wi	il be applied
		ons and all applicable co						,)			
Inspectors Name		GORDON LE	WIS	Apr	roved Au	thorized by		__	<u>~</u>		
Inspectors Signatu	ire De	rdon A	Puis					(PROJECT SUPERIN	NEWDE	N.T)	
Inspectors License	e#	C.W.I. 050	061091	Sut	mitted by						



INSPECTOR CODE	JOB NUMBER	-1425	IDATE	larch 21, 2007	<u> </u>	M T W	TFS
JOB NAME University of California of Riv		-1420	B.	NUMBER / DSA /	OSHPD APP F	ILE#	Riverside
ADDRESS 3615 Canyon Crest Dr.	CITY	rside	GENERAL CON	TRACTOR S.J	. Amoroso	L	Riverside
ARCHITECT Leo Daily	ENGINEER Saiful/Bouque		SUBCONTRAC	TOD /K Ama)	WELCO		
REQUIREMENTS: Limit of one job nu identified. Communication (RFI Sketch building and permit granting authority of	Imber one permit number per n, etc.) voiding previous non-	er sheet. Identify a	ill work by type nust be listed. F	and SPECIFIC	location. Non-	compliant work imunications wi	must be specifica h project designe
			URS				
REGULAR 8	1.5X	2	2X		ME IN		IME OUT 2:00 PM
		anu Un Onto		J	☐ Expen:		
		low-Up Only					
Reinforcement Concrete				flasonry		nforcement Mas W	onry ELDING
Quality Control	Administration	· •	/Post Tension		X Other		
CTAPTED &	st TRUCK BATCHED:	INSPE	CTION	F PLACEMENT			
	····		<u>, I,</u>	·····			
OBSERVATION OF WELDING							**************************************
GRID LINE PX / 18.5-21.5, GR	RID LINE 12 / M-Q, GRID	LINE L / 12-17.	WELDING 3 -	2" FILLET WE	LDS BOTH	SIDES OF AN	GLE.
PROCESS F.C.A.W. SEMIAUT				ON FILE.			
ABOVE WELDS ARE WITHIN	THE ACCEPTANCE CR	ITERIA OF A.W.	.S.D1.1				
	 				· · · · · · · · · · · · · · · · · · ·		
							
			 				
					 		
							
							
		SAM	PLES				
SUPPLIER:							T
MIXED NO TICKET #	DESIGN SLUMP MEASU		TURE DE	SIGN PSI C	UBIC YARDS	SPECIMENS	AMB CONC.
Additional Page (Page #) CM			REPORT	Contains Does Not C	ontain /	. N	on-Compliant Iter
	on of Compliance						ours = 8 hours minimu um charge will be appl
I declare under penalty of perjury that all of the al knowledge the work during the period covered compliance with the approved plans specifications:	by this report has been performe			, ,		,	J
	GORDON LEWIS		Approved A	uthorized by	-1		
97	/ /					PROJECT SUPERINT	NDENTO
Inspectors Signature	lon Lewis					į	,



INSPECTOR CODE	·····	JOB NUMBER	05-1425		DATE	Ma	rch 22, 20	007	М	T W	T F	SS
JOB NAME Universi	ity of California of	Riverside C.I	1.A.S.S.		BUILD F			OSA / OSHPD APP	> FILE#	- 	Rive	rside
ADDRESS 3615 Ca	anyon Crest Dr.		CITY Riverside		GENER	AL CONT	RACTOR	S.J. Amoroso		<u></u>		
ARCHITECT Leo [Daily	ENGINEER S	aiful/Bouquet		SUBCO	NTRACTO	OR (If Any)	COWELCO				
REQUIREMENTS identified. Commu building and permit	nication (RFI Ske	tch, etc.) voiding pr	t number per shee revious non-compl	liant items n	nust be I	y type ar listed. Re	nd SPECII cord conv	FIC location. No ersations and co	n-com mmur	pliant work nications w	must be s ith project	specifically designers,
			· · · · · · · · · · · · · · · · · · ·		URS			THEFT IN I			TIME OUT	
REGUL 8	AR	1.5X			2X			7:00 AM			TIME OUT 2:00 PM	
			Show-Up	Only					enses			
Reinforcemen	nt Concrete	ПС	oncrete Placemen	t		Ma	isonry	□ R	einford	cement Ma	sonry	
<u></u>	ol [Administration		Prestress					eΓ		/ELDING	
	·	J		INSPE		-		📇				
STARTED @:		1st TRUCK BATC	HED:				PLACEM	IENT:				
OBSERVAT	ION OF WELDI	NG L2X2X3/8X1'	3' & L4X3X3/8X1	1'3" TO BO	X STU	D HEAD	ER @ N	ORTH BUILDIN	IG LE	EVEL 1,		
		LEVEL 4 GRID I										
		UTOMATIC, ELE										
ABOVE WE	LDS ARE WITH	IN THE ACCEPT	ANCE CRITERI	A OF A.W.	S.D1.1							
		-										
					•							
				SAM	PLES	3						
SUPPLIER:												
MIXED NO	TICKET#	DESIGN SLUMP	MEASURED SLUMP	ADMIX	TURE	DESI	GN PSI	CUBIC YARDS	; s	SPECIMENS		CONC.
Additional Pag	ge (Page #) CM			·	REP	ORT 🖂	Contair Does N	ns Iot Contain		1	Non-Compl	liant Items
	Certific	ation of Compliance)		,							
I declare under penalty knowledge the work du	ring the period cove	red by this report has	been performed and					num of 4 hours for wo ct and no work is perf				
compliance with the appr	roved plans specification							5	1	\ _	/	
Inspectors Name		GORDON LE	WIS		Аррг	oved Aut	horized by		(PROJ	ECT SUPERINT	ENI ENT)	
Inspectors Signatur	e Dor	don L	euis								1	
Inspectors License	Inspectors License # C.W.I.05061091 Submitted by											



INSPECTOR CODE		JOB NUMBER	05-1	425	DATE	Ma	arch 23, 2	007	М	TW	T F	SS											
JOB NAME University of	California of Riv	rerside C.H	ł.A.S.S.		BUILD	PERMIT	NUMBER / I	DSA / OSHPD APP	FILE	#		erside											
ADDRESS 3615 Canyor			CITY Rivers	ide	GENER	AL CONT	RACTOR	S.J. Amoroso			7.00												
ARCHITECT Leo Daily		ENGINEER Sa	aiful/Bouquel		SUBCC	NTRACT	OR (If Any)	COWELCO															
REQUIREMENTS: Lim	nit of one job nur	mber one permit	number per	sheet. Identify	all work I	y type a	nd SPECI	FIC location. No	n-com	pliant worl	must be	specifically											
identified. Communical building and permit gran			evious non-o	compliant items	must be	listed. Re	ecord conv	versations and co	mmu	nications w	ith projec	t designers,											
				НС	URS																		
REGULAR		1.5X			2X	-		TIME IN			TIME OU												
8		· · · · · · · · · · · · · · · · · · ·		<u> </u>				7:00 AM			2:00 PN	^											
<u> </u>			☐ Sho	w-Up Only				Expe	nses		-												
Reinforcement Co	ncrete	C	oncrete Place	ement		□ ма	asonry _	R	einfore	cement Ma	sonry _												
Quality Control	□	Administration		Prestres	s/Post Te	nsion		X Othe	r	WELD	ING / EP	OXY											
				INSP	ECTIC	N																	
STARTED @:	1s	t TRUCK BATC	HED:		MET	HOD OF	PLACEM	MENT:															
OBSERVATION	OF WELDING	PRE CAST PA	ANELS @ S	SOUTH BUILL	ING LE	VEL 4 G	RID LINE	E 1 / B-D, WEL	DING	3/16" FIL	LET												
WELD 3 SIDES	PER APPROVI	ED SKETCH C	N FILE. PF	ROCESS F.C.	A.W. SE	MIAUTO	OMATIC,	ELECTRODE	E71T	-8.													
WELDERS CER	TS ON FILE. A	BOVE WELDS	S ARE WIT	HIN THE ACC	EPTAN	CE CRI	TERIA OF	A.W.S.D1.1.															
									26 S7	EPS.													
OBSERVATION OF EPOXY #4 DOWELS @ 12" ON CENTER @ NORTH BUILDING AUDITORIUM STEPS - 26 STEPS. DRILLED 5/8" DIAMETER X 4 1/4" EMBEDMENT, CLEANED HOLES OUT WITH GAS POWERED BLOWER & NYLON BRUSH.																							
USED HILTI HIT																							
JOSED THE TTHE	100 2111.01	112010100	00.10	<u> </u>	<i>57112</i> 00			••															
					 																		
						····																	
																							
							 ·																
																							
				SAN	1PLES																		
SUPPLIER:			MEXEUR			ŗ-		,			7	COATURE											
MIXED NO	ICKET# D	ESIGN SLUMP	MEASUR SLUMF		XTURE	DESI	IGN PSI	CUBIC YARDS	S	PECIMENS		CONC.											
									\bot														
Additional Page (P	age#) CM				REP	ORT	Contair Does N	ns lot Contain		1	Non-Com	pliant Items											
	Certification	n of Compliance			†					·													
I declare under penalty of perj knowledge the work during the compliance with the approved	ury that all of the ab ne period covered I	ove statements are by this report has b	true and the of been performed					num of 4 hours for wo															
Inspectors Name	•	GORDON LE			Appr	oved Au	thorized by	, <u> </u>	\mathcal{L}		\angle	_											
Inspectors Signature	Dor	don	Jew	· · · · · · · · · · · · · · · · · · ·				,	(PROJ	ECT SUPERINT	ENDENT)												
Inspectors License #	500	9669-48 / C.W	.I. 0506109	91	Subr	nitted by																	



				ISPECTION		choi	L						
INSPECTOR CODE		JOB NUMBER 05-1425 DATE											
JOB NAME Univers	ity of California of	Riverside C.I	H.A.S.S.		BUILD	PERMIT N	UMBER / I	DSA / OSHPD API	FILE	#		Rive	erside
ADDRESS 3615 C	anyon Crest Dr.		CITY Riversid	e	GENER	RÁL CONT	RACTOR	S.J. Amoroso					
ARCHITECT Leo I	Daily	ENGINEER	aiful/Bouquet	<u> </u>	SUBCO	NTRACTO	OR (If Any)	COWELCO					
	unication (RFI Ske	number one permi	t number per s					FIC location. No					
				НО	URS								
REGUI	LAR	1.5X		2	2X			TIME IN				E OUT	
8								7:00 AM			2:C	00 PM	1
			Show	-Up Only					enses				
Reinforceme	nt Concrete		oncrete Placer	nent		☐ Ma	вопгу	R	einfor	cement N	/lason	ry _	
Quality Contr	lo:lo	Administration		Prestress	 /Post Te	ension		X Othe	Pr		WEL	DING	
				INSPE	CTIC)N							
STARTED @:		1st TRUCK BATC	:HED:				PLACEM	MENT:					
OBSERVAT	TON OF WELDI	NO DDE CAST D	ANICIOTOI	2727268 00	MDLE	TED NO	DTU DIJI	I DINO I EVE	201	CDID	INIC		
		NG PRE CAST P					KINDU	ILDING LEVEL	2 a .	3 GKID I	TIME		
		OF WELDING LE	-		EICH	55K-b.							· · · · · · · · · · · · · · · · · · ·
		UTOMATIC, ELE	CTRODE E7	1-8								•	
·	WELDER - ANDY - CERTS ON FILE THE ABOVE WELDS ARE WITHIN THE ACCEPTANCE CRITERIA OF AWSD1.1												
THE ABOVE	: WELDS ARE V	WITHIN THE ACC	CEPTANCE C	RITERIA OF	AWSD	1.1							·
		· · · · · · · · · · · · · · · · · · ·		 									
				···			·	 					 -
		· · · · · · · · · · · · · · · · · · ·											
		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·									
				· · · ·									
													
				SAM	PLES	3							
SUPPLIER:													
MIXED NO	TICKET#	DESIGN SLUMP	MEASUREI SLUMP	ADMIXT	TURE	DESIG	GN PSI	CUBIC YARDS	: [:	SPECIME	vs		ERATURE CONC.
							· · · · · · · · · · · · · · · · · · ·				寸		
									\top		\dashv		
									\top				
Additional Pa	ge (Page #) CM				REP	ORT	Contair Does N	I ns lot Contain	<u> </u>		Non	-Comp	liant Items
	Certifica	ation of Compliance	;					· · ·					
I declare under penalty knowledge the work du compliance with the appr	of perjury that all of the	e above statements are led by this report has i	true and the of m	y own personal and installed in				num of 4 hours for wo					
Inspectors Name		GORDON LE	WIS		Аррг	oved Autl	horized by	, 1	<u>)</u> ,	_ }	_		
Inspectors Signatur	re Dor	don Te	ius						(PROJ	ECT SUPĒRI	NTENDE	(TM	
Inspectors License	nspectors License # 5009669-85 / CWI 05061091 Submitted by												



INSPECTOR CODE	JOB NUMBER	05-1425	ļ.	DATE Ap	oril 6, 2007		MITW	T F S S
JOB NAME University of Califo	mia of Riverside C.I	H.A.S.S.	Ē	BUILD PERMIT N	IUMBER / D	SA / OSHPD APP I	ILE#	Riverside
ADDRESS 3615 Canyon Cres	Dr.	CITY Riverside	6	SENERAL CONT	RACTOR	S.J. Amoroso		
ARCHITECT Leo Daily	ENGINEER	aiful/Bouquet	5	SUBCONTRACTO	OR (If Any)	COWELCO		
REQUIREMENTS: Limit of o identified. Communication (R building and permit granting a	ne job number one permi Fl Sketch, etc.) voiding p	t number per shee	iant items mu	ust be listed. Re	nd SPECIF	IC location. Non- ersations and con	compliant work n nmunications with	nust be specifically project designers,
DE01" 1D	1.5		HOU			TIME IN	- 1	ME OUT
REGULAR 4	1.5X		2X	•		7:00 AM		:00 PM
		Show-Up	Only			Expen	ses	
Reinforcement Concrete	🗆 c	oncrete Placemen	t	П Ма	asonry	☐ Rei	nforcement Maso	onry
Quality Control							WE	LDING
Quality Control	Administration	<u>L</u>	INSPEC			_ &		
STARTED @:	1st TRUCK BATO	HED:		METHOD OF	PLACEME	ENT:		
OBSERVATION OF W	ELDING PRE CAST P	ANELS TO L2X2	2X3/8". CON	IPLETED NO	RTH BUIL	DING LEVEL 4	GRID LINE	
LX / 18 - 23. WELDING								
WELDER - ANDREW								
PROCESS F.C.A.W. S			-	·				
THE ABOVE WELDS				W S D1 1				
THE ABOVE WEEDS	TILL VALITIME TITE MOV	JEI TANGE ON	ILIUN OL 1					
	· · · · · · · · · · · · · · · · · · ·					,		
	_ 				*****			
	· · · · · · · · · · · · · · · · · · ·			-7-16				
		····						
			SAMF	PLES				
SUPPLIER:		L MEAGUEED	 _					TEMPERATURE
MIXED NO TICKE	# DESIGN SLUMP	MEASURED SLUMP	ADMIXTU	JRE DES	IGN PSI	CUBIC YARDS	SPECIMENS	AMB CONC.
								-
						i		
Additional Page (Page #	СМ			REPORT	Contain Does N	s ot Contain	No	on-Compliant Items
	Certification of Complianc	e						um = 9 hours minimum
I declare under penalty of periury that	all of the above statements are	e true and the of my ov	vn personal					urs = 8 hours minimum m charge will be applied
knowledge the work during the peri- compliance with the approved plans sp	od covered by this report has ecifications and all applicable co	been performed and des	installed in		_	D	\ 1)
Inspectors Name	GORDON LE	EWIS		Approved Au	c othorized by	1	2/	
Inspectors Signature	4	Penis					PROJECT SUPERINTEN	NDENT)
Inspectors License #	C.W.I. 050	061091		Submitted by	<i>'</i>			



ertered

REBAR TENSILE STRENGTH TEST DATA SHEET

DATE:	1/31/2007		MILL:	Cascade	
INSPECTOR'S NAME:	Reliant Testing Engineers		HEAT NUMBER:	347506	
JOB ADDRESS:	3615 Canyon Crest Drive		ASTM/GRADE:	A615 / 60 A706 / 60	· · · · · · · · · · · · · · · · · · ·
	Riverside, Ca	···	REBAR SIZE (DIA.)	3	
CONTRACTOR:	S.J. Amoroso		MARKINGS ON REBA	R C10WS4	
ENGINEER:	Saiful / Bouquest		TAG/SPECIMEN ID:	NR	
PERMIT NO.	NR				
	Т	EST / EQUIPMENT INFORM	MATION (ASTM A615)		
DATE ORDERED / DATE	4/22/07 / 4/22/07				

TEST DATA

Tinius Olsen

2-06 / 2-07

74959

EQUIPMENT USED

SN OF EQUIPMENT

CALIB. / RECAL. DATE

SPECIMEN	TEST		EN DATA	YIELD ST	RENGTH1	ULTIMATE	STRENGTH	FUFy	ELONO	SATION ³	BEND	TEST ⁴
ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAIL
1287.6.1	1/31/07	0.375	0.110	7,845	71,021	11,410	103,294	1.5	1.339	17	-	-
1287.6.2	1/31/07	-	-	-	-	-	-	-	-	-	х	-
								 				
		1							ļ.		l	ŀ

¹ Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

1/22/07 / 1/23/07

K. Van Doren

1/31/07

SPECIMENS RECVD. REPORT DATE

TECHNICIAN NAME

TEST RESULTS:

Complies with ASTM A615 / A706

² Nominal Dimension

³ Elongation in 8-inches.

¹⁸⁰⁻degree bend.





REBAR TENSILE STRENGTH TEST DATA SHEET

DATE:	1/31/2007		MILL:	Mexico		
INSPECTOR'S NAME:	Reliant Testing Engineers		HEAT NUMBER:	284851		
JOB ADDRESS:	3615 Canyon Crest Drive		ASTM/GRADE:	A615 / 60		
	Riverside, Ca		REBAR SIZE (DIA.)	4		
CONTRACTOR:	S.J. Amoroso		MARKINGS ON REBAR Mexico			
ENGINEER:	Saiful / Bouquest		TAG/SPECIMEN ID:	NR ·		
PERMIT NO.	NR	<u> </u>				
	TEST	/ EQUIPMENT INFORMA	TION (ASTM A615)			
DATE ORDERED / DATE SPECIMENS RECVD.	1/22/07 / 1/23/07	EQUIPMENT USED	Tinius Olsen			
REPORT DATE	1/31/07	SN OF EQUIPMENT	74959			
TECHNICIAN NAME	K. Van Doren CALIB. / RECAL. I		2-06 / 2-07			

TEST DATA

SPECIMEN	TEST	SPECIMI	EN DATA	YIELD ST	RENGTH1		STRENGTH	Ft/Fy		SATION ³	BEND	TEST ⁴
ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAIL
1287.7.1	1/31/07	0.500	0.196	12,875	65,563	20,840	106,123	1.6	1.079	14	-	-
1287.7.2	1/31/07	-	-	-	-	-	-	-	-	-	х	-
-										 		
						İ		ł				1

¹ Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

TEST RESULTS:

Complies with ASTM A615

² Nominal Dimension

³ Elongation in 8-inches. ⁴ 180-degree bend.



REBAR TENSILE STRENGTH TEST DATA SHEET

DATE:	1/31/2007	MILL:	Feng Hsin
INSPECTOR'S NAME:	Reliant Testing Engineers	HEAT NUMBER:	384542
JOB ADDRESS:	3615 Canyon Crest Drive	ASTM/GRADE:	A615 / 60 A706 / 60
	Riverside, Ca	REBAR SIZE (DIA.)	4
CONTRACTOR:	S.J. Amoroso	MARKINGS ON REBA	R FHTWN4WS60
ENGINEER:	Saiful / Bouquest	TAG/SPECIMEN ID:	NR
PERMIT NO.	NR		
	TEST / EQUIPMENT IN	FORMATION (ASTM A615)	

			74959 2-06 / 2-07
SPECIMENS RECVO.	1/22/07 / 1/23/07	EQUIPMENT USED	Tinius Olsen

TEST DATA

SPECIMEN	TEST	SPECIME		YIELD ST	RENGTH ¹	ULTIMATE	STRENGTH	Ft/Fy		ATION ³	BEND	TEST ⁴
ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAIL
1287.8.1	1/31/07	0.500	0.196	12,385	63,068	21,120	107,549	1.7	1.353	17		-
1287.8.2	1/31/07	-	<u>-</u>	-	-	-	-	-	-	-	х	_

¹ Based on the halt of the gauge of the test machine method - ASTM A615-9,2.1.

TEST RESULTS: Complies with ASTM A615 A706 / 60

² Nominal Dimension

³ Elongation in 8-inches.

⁴ 180-degree bend.

SPECIALIZED TESTING



10600 Pioneer Boulevard, Suite G • Santa Fe Springs, California 90670 • (562) 903-0032 • Fax (562) 903-3534

(FRIELD)

REBAR TENSILE STRENGTH TEST DATA SHEET

31/2007	MILL:	Feng Hsin
eliant Testing Engineers	HEAT NUMBER:	384596
615 Canyon Crest Drive	ASTM/GRADE:	A615 / 60 A706 / 60
iverside, Ca	REBAR SIZE (DIA.)	5
J. Amoroso	MARKINGS ON REBAR	FHTWN5WS60
aiful / Bouquest	TAG/SPECIMEN ID:	NR
R		
6 iv	liant Testing Engineers 15 Canyon Crest Drive verside, Ca J. Amoroso iful / Bouquest	HEAT NUMBER: 15 Canyon Crest Drive ASTM/GRADE: Verside, Ca REBAR SIZE (DIA.) MARKINGS ON REBAR Iful / Bouquest TAG/SPECIMEN ID:

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE ORDERED / DATE SPECIMENS RECVD,	1/22/07 / 1/23/07	EQUIPMENT USED	Tinius Olsen
REPORT DATE	1/31/07	SN OF EQUIPMENT	74959
TECHNICIAN NAME	K. Van Doren	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

SPECIMEN	TEST	SPECIMI	EN DATA	YIELD ST	RENGTH ¹	ULTIMATE	STRENGTH	Ft/Fy	ELONG	SATION ³	BEND	TEST ⁴
ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAIL
1287.9.1	1/31/07	0.625	0.307	20,225	65,915	30,050	97,935	1.5	1.282	16	-	-
1287.9.2	1/31/07	-	-	-	-	-	-	-	-	-	x	-

¹ Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

TEST RESULTS: Complies with ASTM A615 A706 / 60

² Nominal Dimension

³ Elongation in 8-inches.

⁴ 180-degree bend.



REBAR TENSILE STRENGTH TEST DATA SHEET

DATE:	1/31/2007	MILL:	Mexico	
INSPECTOR'S NAME:	Reliant Testing Engineers	HEAT NUMBER:	269427	
JOB ADDRESS:	3615 Canyon Crest Drive	ASTM/GRADE:	A615 / 60	
	Riverside, Ca	REBAR SIZE (DIA.)	6	
CONTRACTOR:	S.J. Amoroso	MARKINGS ON REBAR	MEXICO_	
ENGINEER:	Saiful / Bouquest	TAG/SPECIMEN ID:	NR	· · · · · · · · · · · · · · · · · · ·
PERMIT NO.	NR			

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE ORDERED / DATE SPECIMENS RECVD.	1/22/07 / 1/23/07	EQUIPMENT USED	Tinius Olsen
REPORT DATE	1/31/07	SN OF EQUIPMENT	74959
TECHNICIAN NAME	K. Van Doren	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

					ובטו באות							
SPECIMEN TEST		SPECIMEN DATA		YIELD S	YIELD STRENGTH ¹		STRENGTH	Ft/Fy	ELONGATION ³		BEND TEST	
ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAIL
2187.10.1	1/31/07	0.750	0.442	28,985	65,600	45,340	102,615	1.6	1.133	14	•	-
1287.10.2	1/31/07	-	_	-	-	-	-	-	-	-	х	-
									_			
) :				

¹ Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

TEST RESULTS:	Complies with ASTM A615

² Nominal Dimension

Elongation in 8-inches.
 180-degree bend.

SPECIALIZED TESTING



10600 Pioneer Boulevard, Suite G · Santa Fe Springs, California 90670 · (562) 903-0032 · Fax (562) 903-3534

REBAR TENSILE STRENGTH TEST DATA SHEET

(d. Niches)	

DATE:

1/31/2007

MILL:

Cascade

INSPECTOR'S NAME:

Reliant Testing Engineers

HEAT NUMBER:

630606

JOB ADDRESS:

3615 Canyon Crest Drive

ASTM/GRADE:

A615 / 60

Riverside, Ca

REBAR SIZE (DIA.)

1013700

5

NR

CONTRACTOR:

S.J. Amoroso

MARKINGS ON REBAR C16S4

ENGINEER:

Saiful / Bouquest

TAG/SPECIMEN ID:

PERMIT NO.

NR

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE ORDERED / DATE SPECIMENS RECVD.	1/22/07 / 1/23/07	EQUIPMENT USED	Tinius Olsen
REPORT DATE	1/31/07	SN OF EQUIPMENT	74959
TECHNICIAN NAME	K. Van Doren	CALIB. / RECAL, DATE	2-06 / 2-07

TEST DATA

					. = 0 . =							
SPECIMEN TEST		SPECIMEN DATA		YIELD ST	RENGTH ¹	ULTIMATE	STRENGTH	Ft/Fy	ELONGATION ³		BEND TEST	
ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in,	PERCENT %	PASS	FAIL
1287.11.1	1/31/07	0.625	0.307	20,870	68,017	33,980	110,743	1.6	0.781	10	-	-
1287.11.2	1/31/07	_	_	-	-	-	-	•	-	-	×	-
			-									
				**		×*						
		l										i

Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

TEST RESULTS:

Complies with ASTM A615

² Nominal Dimension

³ Elongation in 8-inches.

⁴ 180-degree bend.



10600 Pioneer Boulevard, Suite G • Santa Fe Springs, California 90670

REBAR TENSILE STRENGTH TEST DATA SHEET

1	

DATE:

1/31/2007

MILL:

Border

INSPECTOR'S NAME:

Reliant Testing Engineers

HEAT NUMBER:

BS20028320

JOB ADDRESS:

3615 Canyon Crest Drive

ASTM/GRADE:

A615 / 60

CONTRACTOR:

S.J. Amoroso

REBAR SIZE (DIA.)

MARKINGS ON REBAR B29S

9

Saiful / Bouquest

Riverside, Ca

TAG/SPECIMEN ID:

NR

ENGINEER: PERMIT NO.

NR

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE ORDERED / DATE SPECIMENS RECVD.	1/22/07 / 1/23/07	EQUIPMENT USED	Tinius Olsen
REPORT DATE	1/31/07	SN OF EQUIPMENT	74959
TECHNICIAN NAME	K. Van Doren	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

SPECIMEN	TEST	SPECIM	EN DATA		RENGTH ¹		STRENGTH	Ft/Fy		ATION ³	BEND	TEST ⁴
ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAIL
1287.12.1	1/31/07	1.125	0.994	64,620	65,000	103,810	104,421	1.6	1.197	15	•	•
1287.12.2	1/31/07	-	-	-	-	-	-	-	-	-	х	•

¹ Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

TEST RESULTS:

Complies with ASTM A615

² Nominal Dimension

³ Elongation in 8-inches.

⁴ 180-degree bend.

SPECIALIZED TESTING



10600 Pioneer Boulevard, Suite G • Santa Fe Springs, California 90670 • (562) 903-0032 • Fax (562) 903-3534

REBAR TENSILE STRENGTH TEST DATA SHEET

(2212.25×4.7)
Manufacture

DATE:

1/31/2007

MILL:

Tamco

INSPECTOR'S NAME:

Reliant Testing Engineers

HEAT NUMBER:

70178

JOB ADDRESS:

3615 Canyon Crest Drive

ASTM/GRADE:

A706 / 60

Riverside, Ca

REBAR SIZE (DIA.)

CONTRACTOR:

S.J. Amoroso

MARKINGS ON REBAR T29W

ENGINEER:

Saiful / Bouquest

TAG/SPECIMEN ID:

NR

PERMIT NO.

NR

TEST / EQUIPMENT INFORMATION (ASTM A615)

TECHNICIAN NAME	K. Van Doren	CALIB. / RECAL. DATE	2-06 / 2-07
REPORT DATE	1/31/07	SN OF EQUIPMENT	74959
DATE ORDERED / DATE SPECIMENS RECVD.	1/22/07 / 1/23/07	EQUIPMENT USED	Tinius Olsen

TEST DATA

SPECIMEN	TEST		EN DATA		RENGTH ¹		STRENGTH	Ft/Fy	ELONO	SATION ³	BEND	TEST ⁴
ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAIL
1287.13.1	1/31/07	1.125	0.994	67,280	67,676	95,430	95,992	1.4	1.774	22	-	-
1287.13.2	1/31/07	-	•	-	-	-	-	-	-	-	x	-

¹ Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

TEST RESULTS:

Complies with ASTM A706

² Nominal Dimension

³ Elongation in 8-inches.

⁴ 180-degree bend.



PROJECT NAM	ΛE:	UCR- Chass Build	ling		JOB NO:	05-1425
PROJECT ADD	DRESS:	3615 Canyon Cre	st Drive, Riverside, C	A 92507	LAB NO:	5680
CLIENT NAME CLIENT ADDR		S.J. Amoroso Con 275 East Baker St Costa Mesa, CA 9	reet, Suite B			
SPECIMEN TY	PE:	Mortar	_			
LOCATION IN	I STRUCTURE	: <u>.</u>	Elevator 2 - level 3.	5		
MIX NO:	Type S	MEAS	URED SLUMP (in):	N/A	SPEC'D PSI:	1500
SUPPLIER:	Orco		_DIAMETER (in):	2	AREA (sq. in.):	3.14
DATE CAST:	1/4/2007	TIME CAST	9am	CAST BY:	G. Lewis	CO.: RTE
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE
1	7	1/11/2007	10,290	3,277	D	
2	28	2/1/2007	12,960	4,127	D	
3	28	2/1/2007	13,210	4,207	D	
· · · · · · · · · · · · · · · · · · ·						4,167
*	Compressio	, ,), CONE & SHEAR ((re satisfactory and			
	Compression REMARKS:	on test results we	re not satisfactory		ROPESSION AND AY G	WALLES TO THE STATE OF THE STAT
	KLIMAKKS.	Dr. Sanjay Govi	J. J. E. License Num	hber 51523	No. CO515 EXP. 6-30 CIVIL	-08



PROJECT NAME	:	UCR- Chass Bui	lding		JOB NO:	05-1425	
PROJECT ADDRI	ESS:	3615 Canyon C	rest Drive, Riverside, C	A 92507	LAB NO:	5690	
CLIENT NAME: CLIENT ADDRES	S:	S.J. Amoroso Co 275 East Baker S Costa Mesa, CA					
SPECIMEN TYPE	:	Concrete	-				
LOCATION IN S	TRUCTURE:	Shear wall; level 4; grid line 22					
MIX NO:	44243	MEA	SURED SLUMP (in):	4.5	SPEC'D PSI:	5000	
AIR CONTENT:	N/A	•	AMBIENT TEMP:	50	CONCRETE TEMP:	65	
SUPPLIER:	Robertsons		DIAMETER (in):	6	AREA (sq. in.):	28.28	
DATE CAST:	1/5/2007	TIME CAST	8:30am	CAST BY:	G. Lewis	CO.: RTE	
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH	TYPE OF FRACTURE*	28 DAY AVERAGE	
NOMBER	AGE	DATE	(101)	(psi)	PRACTURE	AVERAGE	
1	7	1/12/2007	114,070	4,034	D		
2	28	2/2/2007	189,400	6,697	A		
3	28	2/2/2007	188,060	6,650	A		
4	Hold						
						6,674	
	Compressio ASTM C31, Compressio	n test results w C39, C143, C17	3), CONE & SHEAR ((rere satisfactory and 2, C1231 & C1064. rere not satisfactory	conform to the	• •		
	REMARKS:	Dr. Sanjay Gov	ril p.E. License Wum	nber 51523	No. CO51523 EXP. 6-30-08		



PROJECT NAM	ΛE:	UCR- Chass Build	ding			JOB NO:	05-1425		
PROJECT ADD	PRESS:	3615 Canyon Cre	est Drive, River	side, CA	92507		LAB NO:	5764	
CLIENT NAME CLIENT ADDR		S.J. Amoroso Cor 275 East Baker St Costa Mesa, CA S	reet, Suite B	Inc					
SPECIMEN TY	PE:	Grout	_						
LOCATION IN	I STRUCTURE	•	Elevator 1 &	2; Level	4.5				
MIX NO:	CHJ05404	_	MI	EASURE	O SLUMP (in):	10	SPEC'D PSI:	2500	
SUPPLIER:	Rancho Ready Mix								
DATE CAST:	1/11/2007	TIME CAST:	10:30am		CAST BY:	G. Lewis	COMPANY	RTE	
SAMPLE	SAMPLE	TEST	DIAMETER	AREA	MAXIMUM	COMPRESSIVE	TYPE OF	28 DAY	
NUMBER	AGE	DATE	(in)	(sq.in.)	LOAD (lbf)	STRENGTH (psi)	FRACTURE*	AVERAGE	
1	7	1/18/2007	3	11.22	18,370	1,637	N/A		
2	28	2/8/2007	3	11.24	35,560	3,164	N/A		
3	28	2/8/2007	3	11.25	32,740	2,910	N/A		
4	28	2/8/2007	3	11.22	34,310	3,058	N/A		
								<u>[</u>	
								2,984	
*	* CONE (A), CONE & SPLIT (B), CONE & SHEAR (C), SHEAR (D), COLUMNAR (E) Compression test results were satisfactory and conform to the specifications of ASTM C109,C579,C942,C1019,UBC21-16,UBC 21-18								
	•	n test results we	re not satisfa	ctory		NIAY GOVING			
	REMARKS:	Dr. Sanjay Govi	I/P.E. License	Maria Numbe	* KEE	No. CO51523 EXP. 6-30-08	*		



PROJECT NAME	:	UCR- Chass Bu	ilding		JOB NO:	05-1425	
PROJECT ADDRI	ESS:	3615 Canyon C	rest Drive, Riverside, C	CA 92507	LAB NO:	5766	
CLIENT NAME: CLIENT ADDRES	SS:	S.J. Amoroso Co 275 East Baker Costa Mesa, CA					
SPECIMEN TYPE	:	Concrete	_				
LOCATION IN STRUCTURE:			Stair 6; Footings; gric	l line C			
MIX NO: 4424		MEASURED SLUMP (in):		5	SPEC'D PSI:	5000	
AIR CONTENT:	N/A		AMBIENT TEMP:	43	CONCRETE TEMP:	60	
SUPPLIER:	Robertsons		_DIAMETER (in):	6	6 AREA (sq. in.):		
DATE CAST:	1/12/2007	TIME CAST	IME CAST 9:50am		G. Lewis	CO.: <u>RTE</u>	
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE	
1	7	1/19/2007	110,510	3,908	D		
2	28	2/9/2007	193,840	6,854	D		
3	28	2/9/2007	188,620	6,670	D		
4	Hold						
· 	<u> </u>					6,762	
*	Compression ASTM C31,	n test results w C39, C143, C17	B), CONE & SHEAR (overe satisfactory and 22, C1231 & C1064. Vere not satisfactory	conform to the	specifications of		



PROJECT NAM	1 E:	UCR- Chass Build	ing		JOB NO:	05-1425		
PROJECT ADD	RESS:	3615 Canyon Cres	st Drive, Riverside, C	A 92507	LAB NO:	5791		
CLIENT NAME CLIENT ADDR		S.J. Amoroso Cons 275 East Baker Str Costa Mesa, CA 9	eet, Suite B					
SPECIMEN TYI	PE:	Mortar	-					
LOCATION IN	STRUCTURE	:	4th floor; 1st course; grid line J - 3.5					
MIX NO:	Type S	MEASU	JRED SLUMP (in):	1	SPEC'D PSI:	1500		
SUPPLIER:	Orco		DIAMETER (in):	2	AREA (sq. in.):	3.14		
DATE CAST:	1/16/2007	TIME CAST	10am	CAST BY:	G. Lewis	CO.: RTE		
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (Ibf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE		
1	7	1/23/2007	9,630	3,067	D			
2	28	2/13/2007	15,220	4,847	D			
3	28	2/13/2007	15,090	4,806	D			
	<u> </u>					4,826		
	Compressio ASTM C109	n test results wer , C144, & C1142.	re satisfactory and re not satisfactory	conform to the		23		



DDOLEGE NAME	ROJECT NAME: UCR- Chass Building				IOD NO.	05 1/25			
PROJECT NAME:		OCK- Chass Bu	liaing		JOB NO:	05-1425			
PROJECT ADDRE	ESS:	3615 Canyon C	rest Drive, Riverside, C	A 92507	LAB NO:	5920			
CLIENT NAME: CLIENT ADDRES:	S:	S.J. Amoroso Co 275 East Baker : Costa Mesa, CA							
SPECIMEN TYPE:	:	Concrete	_						
LOCATION IN ST	TRUCTURE:		North bldg; roof deck; grid line Q/15						
MIX NO:	CHJ05372	_ MEA	SURED SLUMP (in):	4.5	SPEC'D PSI:	5000			
AIR CONTENT:	N/A	_	AMBIENT TEMP:	42	CONCRETE TEMP:	58			
SUPPLIER:	Robertsons		_DIAMETER (in):	6	AREA (sq. in.):	28.28			
DATE CAST:	1/24/2007	TIME CAST	ME CAST 6:55am		G. Branstetter	CO.:RTE			
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH	TYPE OF FRACTURE*	28 DAY AVERAGE			
				(psi)					
1	6	1/30/2007	99,470						
2	28	2/21/2007	142,310		5,032 A				
3	28	2/21/2007	148,750	5,260	В				
4	Hold		<u> </u>		-	· · · · · · · · · · · · · · · · · · ·			
						5,146			
* • •	Compressio ASTM C31,	n test results w C39, C143, C17	B), CONE & SHEAR (vere satisfactory and 22, C1231 & C1064.	conform to the					
u	REMARKS:		vjl, P.E. License Num	1	No. CO51523 EXP. 6 - 30 - 08 CIVIL OF CALIFORM	*			



PROJECT NAME:		UCR- Chass Bui	ilding		JOB NO:	05-1425
PROJECT ADDRE	ESS:	3615 Canyon C	rest Drive, Riverside, C	A 92507	LAB NO:	5921
CLIENT NAME: CLIENT ADDRES	S:	S.J. Amoroso Co 275 East Baker S Costa Mesa, CA				
SPECIMEN TYPE	:	Concrete	-			
LOCATION IN S	TRUCTURE:		North bldg; roof dec	k; grid line NX / 5		
MIX NO:	CHJ05372	MEA	SURED SLUMP (in):	5	SPEC'D PSI:	5000
AIR CONTENT:	N/A	-	AMBIENT TEMP: 60 0			62
SUPPLIER:	Robertsons	<u>.</u>	_DIAMETER (in):	6	AREA (sq. in.):	28.28
DATE CAST:	1/24/2007	TIME CAST	10:20am	CAST BY:	G. Branstetter	CO.: RTE
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE
1	6	1/30/2007	109,860	3,885	D	
2	28	2/21/2007	161,320	5,704	В	
3	28	2/21/2007	156,390	5,530	В	
4	Hold					
						5,617
	Compression ASTM C31,	n test results w C39, C143, C17	3), CONE & SHEAR (or rere satisfactory and 2, C1231 & C1064. Fere not satisfactory will P.E. License Num	conform to the		



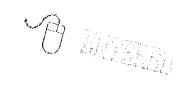
PROJECT NAM	NE:	UCR- Chass Build	ing			JOB NO:	05-1425	
PROJECT ADD	RESS:	3615 Canyon Cres	st Drive, River	side, CA	92507		LAB NO:	5972
CLIENT NAME CLIENT ADDR		S.J. Amoroso Con: 275 East Baker Str Costa Mesa, CA 9	eet, Suite B	Inc				
SPECIMEN TY	PE:	Grout						
LOCATION IN	<u>.</u>	Elevator 1/2;	top lift	 				
MIX NO:	CHJ05404	-	Wi	EASURED	SLUMP (in):	10	SPEC'D PSI:	2500
SUPPLIER:	Rancho Read	y Mix	-					
DATE CAST:	1/24/2007	TIME CAST:	8:15am		CAST BY:	G. Lewis	COMPANY	RTE
SAMPLE	SAMPLE	TEST	DIAMETER	AREA	MAXIMUM	COMPRESSIVE	TYPE OF	28 DAY
		1	1		LOAD	STRENGTH	FRACTURE*	AVERAGE
NUMBER	AGE	DATE	(in)	(sq.in.)	(lbf)	(psi)	PRACTURE	AVERAGE
1	7	1/31/2007	3	10.96	17,170	1,567	N/A	
2	28	2/21/2007	3	10.95	29,660	2,709	N/A	
3	28	2/21/2007	3	10.94	35,570	3,251	N/A	
4	28	2/21/2007	3	10.92	33,340	3,053	N/A	
								
				-			1.00	3,152
* CONE (A), CONE & SPLIT (B), CONE & SHEAR (C), SHEAR (D), COLUMNAR (E) Compression test results were satisfactory and conform to the specifications of ASTM C109,C579,C942,C1019,UBC21-16,UBC 21-18 Compression test results were not satisfactory REMARKS: ** ** ** ** ** ** ** ** **								





	UCR- Chass Bu	ilding		JOB NO:	05-1425			
S:	3615 Canyon C	rest Drive, Riverside, C	CA 92507	LAB NO:	5953			
:	275 East Baker	Street, Suite B						
	Concrete							
LOCATION IN STRUCTURE:		South bldg; Mechanical platform; grid line G - 2.5						
44243	. MEA	SURED SLUMP (in):	4.5	SPEC'D PSI:	5000			
N/A		AMBIENT TEMP:	70	CONCRETE TEMP:	70			
Robertsons		DIAMETER (in):		AREA (sq. in.):	28.28			
1/26/2007	TIME CAST	10am	CAST BY: G. Lewis		CO.: RTE			
SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE			
7	2/2/2007	113,290	4,006	D				
28	2/23/2007	183,690						
28	2/23/2007	177,030	6,260	В				
Hold								
					6,378			
Compression ASTM C31, 0	n test results w C39, C143, C17	vere satisfactory and 2, C1231 & C1064.	conform to the	Specifications of RED PROFESSION SANJAY COLLEGE No. COS1523 SANJAY COLLEGE NO. COS1523 SANJAY COLLEGE NO. COS1				
	RUCTURE: 44243 N/A Robertsons 1/26/2007 SAMPLE AGE 7 28 28 Hold CONE (A), C Compression ASTM C31, C Compression	S: 3615 Canyon C S.J. Amoroso Co 275 East Baker Costa Mesa, CA Concrete RUCTURE: 44243 MEA N/A Robertsons 1/26/2007 TIME CAST SAMPLE TEST AGE DATE 7 2/2/2007 28 2/23/2007 28 2/23/2007 Hold CONE (A), CONE & SPLIT (IIII) Compression test results was STM C31, C39, C143, C17 Compression test results was STM C31, C39, C143, C17	S.J. Amoroso Construction Co., Inc 275 East Baker Street, Suite B Costa Mesa, CA 92626-4504 Concrete RUCTURE: South bldg; Mechan 44243 MEASURED SLUMP (in): N/A AMBIENT TEMP: DIAMETER (in): 1/26/2007 TIME CAST 10am SAMPLE TEST MAXIMUM LOAD (lbf) 7 2/2/2007 113,290 28 2/23/2007 183,690 28 2/23/2007 177,030 Hold CONE (A), CONE & SPLIT (B), CONE & SHEAR (A STM C31, C39, C143, C172, C1231 & C1064. Compression test results were not satisfactory	S: 3615 Canyon Crest Drive, Riverside, CA 92507 S.J. Amoroso Construction Co., Inc 275 East Baker Street, Suite B Costa Mesa, CA 92626-4504 Concrete RUCTURE: South bldg; Mechanical platform; grid 44243 MEASURED SLUMP (in): 4.5 N/A AMBIENT TEMP: 70 Robertsons DIAMETER (in): 6 1/26/2007 TIME CAST 10am CAST BY: SAMPLE AGE DATE (lbf) COMPRESSIVE STRENGTH (psi) 7 2/2/2007 113,290 4,006 28 2/23/2007 183,690 6,495 28 2/23/2007 177,030 6,260 Hold CONE (A), CONE & SPLIT (B), CONE & SHEAR (C), SHEAR (D), Compression test results were satisfactory and conform to the ASTM C31, C39, C143, C172, C1231 & C1064. Compression test results were not satisfactory REMARKS:	S.: 3615 Canyon Crest Drive, Riverside, CA 92507 LAB NO: S.J. Amoroso Construction Co., Inc 275 East Baker Street, Suite B Costa Mesa, CA 92626-4504 Concrete RUCTURE: South bldg: Mechanical platform; grid line G - 2.5 44243 MEASURED SLUMP (in): 4.5 SPEC'D PSI: N/A AMBIENT TEMP: 70 CONCRETE TEMP: N/A AMBIENT TEMP: 6 AREA (sq. in.): 1/26/2007 TIME CAST 10am CAST BY: G. Lewis SAMPLE TEST MAXIMUM LOAD (Ibf) STRENGTH (psi) 7 2/2/2007 113,290 4,006 D 28 2/23/2007 133,690 6,495 DAB 28 2/23/2007 177,030 6,260 B Hold Hold Phold PROFESSION BEAR (C), SHEAR (D), COLUMNAR (E) Compression test results were satisfactory and conform to the specifications of ASTM C31, C39, C143, C172, C1231 & C1064. Compression test results were not satisfactory LEMARKS:			





PROJECT NAM	ΛE:	UCR- Chass Build	ing		JOB NO:	05-1425		
PROJECT ADD	RESS:	3615 Canyon Cre	st Drive, Riverside, (CA 92507	LAB NO:	5971		
CLIENT NAME CLIENT ADDR		S.J. Amoroso Con 275 East Baker Str Costa Mesa, CA 9	reet, Suite B					
SPECIMEN TY	PE:	Mortar	-					
LOCATION IN	STRUCTURE	: North bldg; Roof; 1st course; grid line 23-MX						
MIX NO:	Type S	_ MEASI	JRED SLUMP (in):	N/A	SPEC'D PSI:	1500		
SUPPLIER:	Orco		DIAMETER (in):	2	AREA (sq. in.):	3.14		
DATE CAST:	1/26/2007	TIME CAST	11:45am	CAST BY:	G. Lewis	CO.: RTE		
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE		
1	7	2/2/2007	6,460	2,057	D			
2	28	2/23/2007	9,710		D			
3	28	2/23/2007	9,800	3,121	D			
						3,107		
	Compressio ASTM C109	on test results wer b, C144, & C1142. In test results wer	re satisfactory and re not satisfactory N. M. W. J. P.E. License Nun	I conform to the		** MONEER *		





PROJECT NAM	NE:	UCR- Chass Build	ing		JOB NO:	05-1425
PROJECT ADD	RESS:	3615 Canyon Cres	st Drive, Riverside, C	A 92507	LAB NO:	6019
CLIENT NAME CLIENT ADDR		S.J. Amoroso Cons 275 East Baker Str Costa Mesa, CA 92	eet, Suite B			
SPECIMEN TYP	PE:	Mortar				
LOCATION IN	STRUCTURE	:	Roof; 4th course; g	rid line MX-23		
MIX NO:	Type S	MEASU	JRED SLUMP (in):	N/A	SPEC'D PSI:	1500
SUPPLIER:	Orco		DIAMETER (in):	AREA (sq. in.):	3.14	
DATE CAST:	1/29/2007	TIME CAST				CO.: RTE
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE
			(lbf)			
1	7	2/5/2007	8,910	2,838	D	
3	28	2/26/2007	11,810 12,420	3,761 3,955	D D	
3	20	2/26/2007	12,420			
						3,858
* 6	Compressio ASTM C109	n test results wer , C144, & C1142. n test results wer	CONE & SHEAR () e satisfactory and e not satisfactory	conform to the		





PROJECT NAME	: :	UCR- Chass Bu	ilding		JOB NO:	05-1425	
PROJECT ADDR	ESS:	3615 Canyon C	rest Drive, Riverside, C	A 92507	LAB NO:	6020	
CLIENT NAME: CLIENT ADDRES	SS:	S.J. Amoroso Co 275 East Baker Costa Mesa, CA					
SPECIMEN TYPE	: :	Concrete	_				
LOCATION IN S	TRUCTURE:		Level 3; Stair 1				
MIX NO:	CHJ05372	_ MEA	ASURED SLUMP (in):	4.75	SPEC'D PSI:	5000	
AIR CONTENT:	N/A	_	AMBIENT TEMP:	50	50 CONCRETE TEMP:		
SUPPLIER:	Robertsons		DIAMETER (in):		AREA (sq. in.):	28.28	
DATE CAST:	1/31/2007	TIME CAST	CAST 6:45am CA		G. Lewis	CO.: <u>RTE</u>	
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE	
1	7	2/7/2007	117,220	4,145	D		
2	28	2/28/2007	160,590	5,679	А		
3	28	2/28/2007	163,180	5,770	А		
4	Hold						
	1					5,724	
*	Compressio ASTM C31,	n test results w C39, C143, C17	B), CONE & SHEAR (0 vere satisfactory and 72, C1231 & C1064. vere not satisfactory		• •		



O PROPER

PROJECT NAM	ΛE:	UCR- Chass Build	R- Chass Building				JOB NO:	05-1425	
PROJECT ADD	ORESS:	3615 Canyon Cre	st Drive, River	side, CA	92507		LAB NO:	6115	
CLIENT NAME CLIENT ADDR		S.J. Amoroso Con 275 East Baker St Costa Mesa, CA 9	reet, Suite B	, Inc					
SPECIMEN TY	PE:	Grout	_						
LOCATION IN	I STRUCTURE	: <u> </u>	Roof; north	bldg; grid	l line L-15				
MIX NO:	CHJ05404	_	W	EASUREI	O SLUMP (in):	10	SPEC'D PSI:	2500	
SUPPLIER:	Rancho Read	y Mix	_						
DATE CAST:	2/5/2007	TIME CAST:	7:30am	-	CAST BY:	G. Lewis	COMPANY	RTE	
SAMPLE	SAMPLE	TEST	DIAMETER	AREA	MAXIMUM	COMPRESSIVE	TYPE OF	28 DAY	l
NUMBER	AGE	DATE	(in)	(sq.in.)	LOAD (Ibf)	STRENGTH (psi)	FRACTURE*	AVERAGE	
1	7	2/12/2007	3	11.78	31,750	2,695	N/A		29
2	28	3/5/2007	3	11.41	36,960	3,239	N/A		
3	28	3/5/2007	3	10.97	36,960	3,369	N/A		I I
4	28	3/5/2007	3	11.72	35,820	3,056	N/A		ı 1
								3,222	
* G	Compression ASTM C109	CONE & SPLIT (B) on test results we on,C579,C942,C101 on test results we	re satisfactoi 9,UBC21-16	ry and co	onform to the			PROFESSICANIA GOLF	
	REMARKS:		Ar	11/		No. 2382 EXP. 6-30		No. CO51523 XP. 6-30-08	MAR X
		Dr. Sanjay Govil	, P.E. Licens	eNumb	er 51523	OF CHI		CALI	



PROJECT NAME: UCR- Chass Bu			ling		JOB NO:	05-1425		
PROJECT ADI	ORESS:	3615 Canyon Cre	est Drive, Riverside, (CA 92507	LAB NO:	6117	-	
CLIENT NAME		S.J. Amoroso Cor 275 East Baker St Costa Mesa, CA 9	•					
SPECIMEN TY	PE:	Mortar	_					
LOCATION IN	N STRUCTURE	<u> </u>	Mezzanine; grid line 20-LX.2					
MIX NO: Type S MEA			URED SLUMP (in):	N/A	SPEC'D PSI:	1500		
SUPPLIER:	Orco		_DIAMETER (in):	2	AREA (sq. in.):	3.14		
DATE CAST:	2/6/2007	TIME CAST	11am	CAST BY:	G. Lewis	CO.: RTE		
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE		
1	7	2/13/2007	7,400	2,357	D		Rav	
2	28	3/6/2007	10,400	3,312	D			
3	28	3/6/2007	10,830	3,449	D			
						3,381		
*	Compression ASTM C109	on test results we), C144, & C1142.		l conform to the				
	Compression REMARKS:	n test results we	re not satisfactory		PROFESSIONAL CALL	M		
		h	haran		No. CO51523 XP. 6-30-08	k k		
		Dr. Sanjay Govi	l, P.E. Liceffe Nun	nber 51523	CIVIL OR	y		



O AND

PROJECT NAM	ΛE:	UCR- Chass Build	ing				JOB NO:	05-1425	
PROJECT ADD	RESS:	3615 Canyon Cre	st Drive, River	side, CA	92507		LAB NO:	6160	
CLIENT NAME CLIENT ADDR		S.J. Amoroso Con 275 East Baker Str Costa Mesa, CA 9	reet, Suite B	Inc					
SPECIMEN TY	PE:	Grout	-						
LOCATION IN	STRUCTURE	:	Mezzanine; g	grid line L	.X.2 / 20				
MIX NO:	CHJ05404	_	MI	EASURE	O SLUMP (in):	10	SPEC'D PSI:	2500	
SUPPLIER:	Rancho Read	y Mix	-						
DATE CAST:	2/8/2007	TIME CAST:	N/A		CAST BY:	G. Lewis	COMPANY	RTE	
SAMPLE	SAMPLE	TEST	DIAMETER	AREA	MAXIMUM	COMPRESSIVE	TYPE OF	28 DAY	
NUMBER	AGE	DATE	(in)	(sq.in.)	LOAD (lbf)	STRENGTH (psi)	FRACTURE*	AVERAGE	
1	7	2/15/2007	3	10.22	18,470 -	1,807	N/A	P	2
2	28	3/8/2007	3	10.23	30,740	3,005	N/A		•
3	28	3/8/2007	3	10.16	32,220	3,171	N/A		
4	28	3/8/2007	3	10.2 .	30,410	2,981 .	N/A		
								3,053	
*	Compressio ASTM C109	CONE & SPLIT (B) n test results wer ,C579,C942,C101 n test results wer	re satisfactoi 9,UBC21-16,	ry and co ,UBC 21	onform to the		of		
	REMARKS:			1 1 1		No. CO51523 EXP. 6-30-0	8 *	-	
		Dr. Sanjay Govil	P.F. Licens	e v umb	er 51523	OF CALL			





PROJECT NA	νE:	UCR- Chass Build	ing		JOB NO:	05-1425	<u>-</u>		
PROJECT ADD	ORESS:	3615 Canyon Cres	st Drive, Rive	rside, CA	92507		LAB NO:	6213	<u>:</u>
CLIENT NAME CLIENT ADDR		S.J. Amoroso Con 275 East Baker Str Costa Mesa, CA 9	eet, Suite B	, Inc					
SPECIMEN TY	PE:	Grout	-						
LOCATION IN	I STRUCTURE		Elevator # 4	top lift	 · · · · · · · · · · · · · · · · · ·				_
MIX NO:	CHU05-404		M	EASURE	D SLUMP (in):	10	SPEC'D PSI:	2500	_
SUPPLIER:	Rancho ready	mix				•			
DATE CAST:	2/13/2007	TIME CAST:	7:30 A.M.		CAST BY:	G.Lewis	COMPANY	RTE	-
SAMPLE	SAMPLE	TEST	DIAMETER	AREA	MAXIMUM	COMPRESSIVE	TYPE OF	28 DAY	1
NUMBER	AGE	DATE	(in)	(sq.in.)	LOAD (lbf)	STRENGTH (psi)	FRACTURE*	AVERAGE	
1	7	2/20/2007	3	11.1	20,010	1,803	N/A	<u> </u>	٦
2	28	3/13/2007	3	11.02	31,360	2,846	N/A	1	120
3	28	3/13/2007	3	11.04	34,030	3,082	N/A		1
4	28	3/13/2007	3	11.14	33,510	3,008	N/A		
								2,979	
*/	CONE (A), C	ONE & SPLIT (B)	, CONE & SH	EAR (C)), SHEAR (D),	COLUMNAR (E)			
ď	Compression	n test results wer	e satisfactor	ry and c	onform to the	e specifications	of		
	ASTM C109,	C579,C942,C101	9,UBC21-16,	UBC 21,	-18				
	Compression	n test results wer	e not satisfa	ctory	(820 X	ROFESSIONAL CHE			
	REMARKS:	,,,,		-				_	
			Ann	M	/ HCC-1	o. CO51523 P. 6-30-08		-	
	•	Dr. Saniay Govil	PE Vicabel	Numb	er 515237×	CIVIL	7		





PROJECT NAME	:	UCR- Chass Bu	ilding		JOB NO:	05-1425	
PROJECT ADDR	ESS:	3615 Canyon C	rest Drive, Riverside, C	A 92507	LAB NO:	6203	
CLIENT NAME: CLIENT ADDRES	SS:	S.J. Amoroso Co 275 East Baker: Costa Mesa, CA					
SPECIMEN TYPE		Concrete	_				
LOCATION IN S	TRUCTURE:			<u>-</u>			
MIX NO:	44243	MEA	ASURED SLUMP (in):	4 1/2	SPEC'D PSI:	5000	-
AIR CONTENT:	N/A	_	AMBIENT TEMP:	43	CONCRETE TEMP:	60	-
SUPPLIER:	Robertson's		_DIAMETER (in):	6	AREA (sq. in.):	28.28	
DATE CAST:	2/15/2007	TIME CAST	8:00 A.M.	CAST BY:	G.Lewis	CO.: RTE	
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE	
1	7	2/22/2007	128,790		D		RGU
2	28	3/15/2007	179,990	6,365	А	-	
3	28	3/15/2007	171,380	6,060	Α		
4	Hold						
						6,212	[]
· v	Compression ASTM C31,	n test results w C39, C143, C17	B), CONE & SHEAR (overe satisfactory and 2, C1231 & C1064. Vere not satisfactory	conform to the			ı



PROJECT NAME	:	UCR- Chass Bu	ilding		JOB NO:	05-1425	
PROJECT ADDRE	ESS:	3615 Canyon C	rest Drive, Riverside, C	A 92507	LAB NO:	6239	
CLIENT NAME: CLIENT ADDRES	S:	S.J. Amoroso Co 275 East Baker Costa Mesa, CA					
SPECIMEN TYPE	:	Concrete	-				
LOCATION IN S	TRUCTURE:		Stair # 1 Level 4				
MIX NO:	CHJ05372	_ MEA	SURED SLUMP (in):	3 3/4	SPEC'D PSI:	5000	
AIR CONTENT:	N/A	_	AMBIENT TEMP:	52	CONCRETE TEMP:	69	e-
SUPPLIER:	Robertson's		DIAMETER (in):	6	AREA (sq. in.):	28.28	·
DATE CAST:	2/20/2007	TIME CAST	8:00 A.M.	CAST BY:	<u>G.Lewis</u>	CO.: RTE	
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE	•
1	7	2/27/2007	112,900	3,992	A		26, v
2	28	3/20/2007	143,660	5,080	В		. 9-
3	28	3/20/2007	149,200	5,276	A		
4	Hold						
	-					5,178]
*	Compressio	n test results w	B), CONE & SHEAR (overe satisfactory and 2, C1231 & C1064.	conform to the	specifications of		
			vere not satisfactory	(2) 47 k	Y GO VICE		
	REMARKS:	Dr. Saniav Gov	vil, D.E. License Num	1 M	CIVIL 18		





PROJECT NAME	•.	UCR- Chass Bu	ilding		JOB NO:	05-1425	ı
PROJECT ADDR	ESS:	3615 Canyon C	rest Drive, Riverside, C	A 92507	LAB NO:	6403	ı
CLIENT NAME: CLIENT ADDRES	SS:	S.J. Amoroso C 275 East Baker Costa Mesa, CA					
SPECIMEN TYPE	:	Concrete	_				
LOCATION IN S	TRUCTURE:		Foundation Elevator	# 4			
MIX NO: 4424		ME/	ASURED SLUMP (in):	5	SPEC'D PSI:	5000	ı
AIR CONTENT:	N/A	_	AMBIENT TEMP:	72	CONCRETE TEMP:	75	
SUPPLIER:	Robertson's		_DIAMETER (in):	6	AREA (sq. in.):	28.28	ı
DATÉ CAST:	3/7/2007	TIME CAST	10:30 A.M.	CAST BY:	G.Lewis	CO.: RTE	
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (Ibf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE	
1	7	3/14/2007	116,170		D		26
2	28	4/4/2007	176,350	6,236	D		
3	28	4/4/2007	176,290	6,234	В		
4	Hold						
						6,235	
	Compressio ASTM C31,	n test results v C39, C143, C17 n test results v	B), CONE & SHEAR (overe satisfactory and 72, C1231 & C1064. Were not satisfactory vil, P.E. Libense Num	conform to the REOPROFE RECOPROFE AND A Y EXP. 6-3	specifications of	-	•



O San

PROJECT NAME	:	UCR- Chass Bui	lding		JOB NO:	05-1425	<u>-</u>
PROJECT ADDRI	ESS:	3615 Canyon C	rest Drive, Riverside, C	A 92507	LAB NO:	6404	<u>+</u>
CLIENT NAME: CLIENT ADDRES	S:	S.J. Amoroso Co 275 East Baker S Costa Mesa, CA					
SPECIMEN TYPE	:	Concrete	-				
LOCATION IN S	TRUCTURE:		Roof mechanical cur	b; North Building			~
MIX NO:	CHJ05372	_ MEA	SURED SLUMP (in):	4 1/2	SPEC'D PSI:	5000	<u> </u>
AIR CONTENT:	N/A	-	AMBIENT TEMP:	55	CONCRETE TEMP:	70	<u> </u>
SUPPLIER:	Robertson's		DIAMETER (in):	6	AREA (sq. in.):	28.28	-
DATE CAST:	3/8/2007	TIME CAST	7:25 A.M.	CAST BY:	G.Lewis	CO.: RTE	
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE	
1	7	3/15/2007	101,400	3,586	D		R
2	28	4/5/2007	141,680	5,010	D		1
3	28	4/5/2007	142,830	5,051	В		1
4	Hold						
							<u> </u>
						5,030	<u> </u>
*	Compressio	n test results w	3), CONE & SHEAR ((ere satisfactory and 2, C1231 & C1064.	conform to the	specifications of		
	Compressio REMARKS:	n test results w	ere not satisfactory	EQUPROFE SOANJAY	GOLICE SE		
		Dr. Sanjay Gø	ril, P.E. License Num	No. COV EXP. 6-1 hber 51 6 OF C	51523 S S S S S S S S S		



RECEIVED
Design & Construction
U.C. Riverside

NUV @ 6 7006

Date:

October 26, 2006

Report distribution package of Field Inspection Reports and/or Laboratory results on materials tested.

Job Name:

UCR Chass Building

Job Address:

3615-A Canyon Crest Drive

City:

Riverside, CA

Client Name:

S J Amoroso Construction Co Inc.

You are receiving these reports at the request of our client. If you are not the correct recipient or wish to discontinue to receipt, please contact Denise DeGroff at 714/556-5867.



Inspection Report

INSPECTOR CODE		JOB NUMBER	05-14	25	DATE						
JOB NAME University	of California of	Riverside C.H.	A.S.S.		BUILD PERMIT NUMBER / DSA / OSHPD APP FILE# Riverside						
ADDDESS	yon Crest Dr.		CITY Riversio	le	GENERA	L CONTRACTOR	S.J. Amoroso				
ARCHITECT Leo Da	aily	ENGINEER Sai	iful/Bouquet				Pacific Coast Stee				
REQUIREMENTS: identified. Commun	Limit of one job	number one normit	number ner t	sheet. Identify al	l work by	type and SPECIF	FIC location. Non-	compliant work	must be spec	ifically oners.	
building and permit	granting authorit	y officials.					CISCUONS UNG COM		., .,		
		1.5X		HOU	JRS_x	· · · · · · · · · · · · · · · · · · ·	TIME IN		IME OUT		
REGULA 8	.к	1.5%		<u> </u>	Δ		7:00 AM	2	::00 PM		
<u></u>			Show	v-Up Only	Expenses						
Reinforcement	Concrete		ncrete Place	ment	[X Masonry	X Reir	forcement Mas	onry		
Quality Control		Administration		Prestress/			Other				
				INSPE	СТІО	N					
STARTED @:		1st TRUCK BATCH	HED:		MET	HOD OF PLACEM	ENT:				
OBSERVATION	ON OF CMU P	LACEMENT @ PE	RIMETER	OF ELEVATOR	₹1&2,	COMPLETED 1	0 COURSES AB	OVE 2ND FLO	OOR.		
		0) 8" ON CENTER									
		0 / S-600. LAPS 4									
		ING FLANGE TO F						ACCEPTABLE			
	OSE ON FILE.										
CHECKED C	OLUMNS @ L	EVEL 3-4 SOUTH	BUILDING	GRID LINE D-	1, C-1, (C-4, HAD CLEA	RANCE PROBLE	MS, TALKED	то		
PACIFIC CO.	AST STEEL &	MATT ADJUSTED	COLUMNS	S TO PROPER	LOCAT	TION, IT IS NOV	ACCEPTABLE	SURE FORM	IS IN		
PROCESS O	F CLOSING C	OLUMNS.									
											
						·					
L.,,				,		,					
			··	SAM	PLES						
SUPPLIER:			1151010	<u>. K</u>				T	TEMPERA	TURE	
MIXED NO	TICKET#	DESIGN SLUMP	MEASURE SLUMP		TURE	DESIGN PSI	CUBIC YARDS	SPECIMENS	AMB CO		
								<u> </u>			
								<u> </u>			
							<u></u>	<u> </u>	1		
Additional Pag	ge (Page #) CM				REP	ORT Contain	ns lot Contain	N	on-Compliant	Items	
	Certific	cation of Compliance	•		All insi	pections based on mini	num of 4 hours for work	performed over 4 h	ours = 8 hours m	inimum	
knowledge the work du	ring the period cov	the above statements are rered by this report has tions and all applicable co	been performed	my own personal I and installed in	If inspe	ector is called to a proje	ct and no work is perfor	med a 2 hour minim	um charge will be	applied	
Inspectors Name		GORDON LE	WIS		Appr	oved Authorized b	y	PROJECT SUPERINT	1		
Inspectors Signatur	e De	rdon I	ews				کــــــ ـ	TIMEO SUPERINI	THE PERSON		
Inspectors License # 5009669-84 / 5009669-85					Subn	nitted by		A	LW.	E ESE	
				ACCO	UNTING				_		



Inspectors Signature

Inspectors License #

3035 S. Harbor Blvd. Santa Ana, CA 92704

714/556-5867 • 714/556-5868 TESTING ENGINEERS Inspection Report DATE JOB NUMBER INSPECTOR CODE October 3, 2006 05-1425 BUILD PERMIT NUMBER / DSA / OSHPD APP FILE JOB NAME University of California of Riverside Riverside C.H.A.S.S. CITY Riverside GENERAL CONTRACTOR S.J. Amoroso 3615 Canyon Crest Dr. SUBCONTRACTOR (If Any) Pacific Coast Steel Saiful/Bouquet Leo Daily REQUIREMENTS: Limit of one job number one permit number per sheet. Identify all work by type and SPECIFIC location. Non-compliant work must be specifically identified. Communication (RFI Sketch, etc.) voiding previous non-compliant items must be listed. Record conversations and communications with project designers building and permit granting authority officials. HOURS TIME OUT TIME IN 1.5X REGULAR 2:00 PM 7:00 AM R Expenses Show-Up Only X Masonry X Reinforcement Masonry Concrete Placement Reinforcement Concrete __ EPOXY / WELDING Quality Control _____ Administration ____ Prestress/Post Tension _____X Other ___ INSPECTION METHOD OF PLACEMENT: 1st TRUCK BATCHED: STARTED @: OBSERVATION OF PLACING 8" CMU'S @ ELEVATOR 1 & 2 LEVEL 2-3 GRID LINE 3.6. REINFORCEMENT #4 @ 16" ON CENTER EACH WAY PER DETAIL 10 / S-600. LAPS & OVER DOOR REINFORCEMENT PER DETAIL 2 & 3 / S-004. EPOXY #5 HEAD BARS @ ELEVATOR DOORS PER DETAIL 3 / S-004 & 2 HORIZONTAL ABOVE DOOR, DRILLED 3/4 DIAMETER X 6" EMBEDMENT, USED RE-500 EPOXY, EXP. DATE 11-06, CLEANED HOLES OUT WITH ELECTRIC BLOWER & NYLON BRUSH. PERIMETER OF ABOVE AREA CHECKED CLEAN OUTS EVERY 32", CLEANED OUT WITH ELECTRIC BLOWER ACCEPTABLE. OBSERVATION OF WELDING FLANGE TO 3" & 4" HOT WATER & CHILL WATER PIPE @ LEVEL 1 CEILING GRID LINE G.5-2.8 PROCESS S.M.A.W. MANUAL 1/8 6010 FILLET WELDS. WELDER - JOSE - ON FILE. WELDING ON GOING. **SAMPLES** SUPPLIER: TEMPERATURE MEASURED **CUBIC YARDS SPECIMENS** ADMIXTURE **DESIGN PSI** TICKET# DESIGN SLUMP MIXED NO AMB CONC. SLUMP Contains REPORT Non-Compliant Items Additional Page (Page #) CM Does Not Contain Certification of Compliance All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours minimum If inspector is called to a project and no work is performed a 2 hour minimum charge will be applied I declare under penalty of perjury that all of the above statements are true and the of my own personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans specifications and all applicable codes A ENTERE Approved Authorized by GORDON LEWIS Inspectors Name

5009669-84 / 5009669-85

Submitted by



TESTING ENG	NEERS		Inst	pectio	n Re	eport						
INSPECTOR CODE		JOB NUMBER	05-1425		DATE	October 4, 20		X	FSS			
JOB NAME University	of California of Riv	rerside C.H.	A.S.S.		BUILD P	ERMIT NUMBER / D	SA / OSHPD APP FI	LE#	Riverside			
ADDRESS	on Crest Dr.	(CITY Riverside		GENER/	L CONTRACTOR	S.J. Amoroso					
ARCHITECT Leo Dail		ENGINEER	ful/Bouquet		SUBCONTRACTOR (If Any) Pacific Coast Steel							
REQUIREMENTS: Lidentified. Communic building and permit gr	imit of one job nu ation (RFI Sketch	mber one permit , etc.) voiding pre	number per sheet	ant items m	ust be li	y type and SPECIF sted. Record conve	FIC location. Non-cersations and comm	ompliant work munications with	nust be specifically project designers			
				HOL			TIME IN		ME OUT			
REGULAF 8		1.5X		2	Χ		7:00 AM		00 PM			
								1,				
<u> </u>			Show-Up	Only								
Reinforcement (Quality Control	Concrete	Administration	ncrete Placement	Prestress/		Masonry	(X) Reint	forcement Maso WE	nry			
				INSPE								
STARTED @:	1:	st TRUCK BATCI	HED:		MET	HOD OF PLACEM	ENT:	-,,				
OBSERVATIO	N OF PLACING	6" CMU'S @ LI	EVEL 2 SOUTH	BUILDING	GRID	LINE B.8 / 8.1-1	1. REINFORCEM	IENT #4 @ 16	,			
							S, MADE 1 SET					
							MU'S @ GRID LIN					
							EVEL 1 CEILING		.7-2.8.			
PROCESS S.I	M.A.W. MANUAL	_ 1/8 6010 FILL	ET WELDS ACC	EPTABLE	E. WEL	DER - JOSE - ON	N FILE.					
					,							
				SAM	PLES		· · · · · · · · · · · · · · · · · · ·					
SUPPLIER:		ORCO				,						
MIXED NO		DESIGN SLUMP	MEASURED	ADMIX	TURE	DESIGN PSI	CUBIC YARDS	SPECIMENS	TEMPERATURE AMB CONC.			
TYPE S			SLUMP					3	7.117.5			
					·							
Additional Page	(Page #) CM			<u> </u>	REP	ORT Contain	I ns lot Contain	No.	n-Compliant Item			
I declare under penalty of knowledge the work duri compliance with the appro	perjury that all of the a	by this report has	true and the of my ow been performed and	vn personal installed in	All ins	pections based on minir ector is called to a proje	num of 4 hours for work ct and no work is perfor	performed over 4 ho ned a 2 hour minimu	urs = 8 hours minimum m charge will be applie			
Inspectors Name		GORDON LE	WIS		App	oved Authorized b	ر <u>ا ب</u>	PROJECT SUPERINTE	IDENT			
Inspectors Signature	Doza	don I	ews	······			(F	NOJEC I SUPERINI BE				
Inspectors License #		5009669-84 / 5	009669-85			mitted by		- PA	The same			
				ACCO	UNTING	i						



Inspection Report

			HISP		1110	POIL			T = T = T =
NSPECTOR CODE		JOB NUMBER	05-1425	ļ	DATE	October 5, 20			FSS
OB NAME Universit	ty of California of Riv	erside C.H.	A.S.S.	E	BUILD PE	RMIT NUMBER / D	SA / OSHPD APP FIL	E#	Riverside
ODRESS	nyon Crest Dr.		CITY Riverside	- 0	SENERAL	CONTRACTOR	S.J. Amoroso		
RCHITECT Leo D		ENGINEER	iful/Bouquet		SUBCONT	TRACTOR (If Any)	Pacific Coast Steel		
	1 : is - # lab mus	-ber one normit	number per sheet	. Identify all	work by	type and SPECIF	IC location, Non-co	ompliant work m	ust be specificall
lentified. Commu	nication (RFI Sketch, granting authority of	etc.) voiding pre	evious non-complia	ınt items mu	ıst be list	ted. Record conve	ersations and comn	nunications with	project designers
and permit	granting dutions, or	modio.	 	HOU	IRS				
REGUL	AR	1.5X		2X			TIME IN		WE OUT
8							7:00 AM	2:	00 PM
]			Show-Up (Only			Expense	es	
Reinforcemen	nt Concrete	Co	ncrete Placement			Masonry	X Reinf	orcement Maso	nry
=		Administration			ost Tens	sion	Other		
1		•		INSPE	CTION	V			
TARTED @:	1s	t TRUCK BATCI				OD OF PLACEM	ENT:		
	D PLACING 6" CM	1110 @ 1 E /El	2 CRID LINE 10.	11 / A-R 6	5 COL	IRSES PARAPE	T WALL REINE	ORCEMENT #	4 @
	ITER EACH WAY I								
									//RRATOR
	ACEMENT @ PER						ID I LOOK, OSL	DELLOTTO	VIDIO
	OLIDATION, USED			SIGROUI	MIX#	CHJU0404.			
MADE 1 SE	T OF 4 GROUT SA	MPLES @ GR	ID LINE 11-A.9.						

			····					· · · · · · · · · · · · · · · · · · ·	
		·							<u></u>
							· ——— · ———		
				SAM	PLES				
SUPPLIER:		RANCHO REA		·				г	TEMPERATURE
MIXED NO	TICKET#	DESIGN SLUMP	MEASURED SLUMP	ADMIXT	URE	DESIGN PSI	CUBIC YARDS	SPECIMENS	AMB CONC.
CHJ05404	2306078	9	10	R-CRE	ETE	2500	10	4	75 78
						-			
				1	REPO	Contair		Nr	on-Compliant Item
Additional Pa	age (Page #) CM					X Does N	ot Contain		
	Certification	on of Compliance	•		All insp	ections based on minin	num of 4 hours for work	performed over 4 ho	urs = 8 hours minimun
I declare under penalty	of perjury that all of the	above statements are	true and the of my ow	n personal	If inspe	ctor is called to a proje	ct and no work is perform	ned a 2 hour minimu	m charge will be applie
knowledge the work of compliance with the ap-	luring the period covered proved plans specifications	by this report has and all applicable co	been performed and i des	installed in				1 2	
Inspectors Name		GORDON LE	:WIS		Appro	oved Authorized by	1	De la constant de la	anting
Inspectors Signate	ure Doro	Con Te	ws				(P	ROJEOT SUBTRINTE	THE PARTY
		5009669-84 / 5	S000869-85		Subm	nitted by			
Inspectors Licens	C#	300 3003-04 / 5	003003-03						



TESTING EN	GINEERS		Insi	pectio	n Re	eport			
NSPECTOR CODE		JOB NUMBER			DATE	October 6, 2		M T W	T F S S
OB NAME	ty of California of	Riverside C.H	I.A.S.S.		BUILD P	ERMIT NUMBER / [SA / OSHPD APP FI	LE#	Riverside
DDRESS	nyon Crest Dr.		CITY Riverside		GENER/	L CONTRACTOR	S.J. Amoroso		
RCHITECT Leo D		ENGINEER	aiful/Bouquet		SUBCON	ITRACTOR (If Any)	Pacific Coast Stee		
EAUDEMENTS.	Limit of one job	number one nermit	number per sheet	. Identify a	i work b	y type and SPECI	FIC location. Non-c	compliant work r	nust be specifically
entified. Commu	nication (RFI Sko	etch, etc.) voiding pr	evious non-complia	ant items m	nust be li	sted. Record conv	ersations and comi	munications with	n project designers,
unding and permit	graning danion	y unious.		HOU	JRS				
REGUL	AR	1.5X		2	X		TIME IN		IME OUT
8							7:00 AM		:30 PM
]			Show-Up	Only			Expens	es	
7 Reinforcemen	nt Concrete	ПО	oncrete Placement		[X Masonry	X Rein	forcement Maso	onry
☐ Quality Contr		Administration	П	Prestress/	Post Ter	nsion	X Other	E	POXY
1	<u></u> -	_		INSPE					
STARTED @:		1st TRUCK BATC		11101 1		HOD OF PLACEN	MENT:		
						0. 00MPLETE	O LID TO LID FO	BEINEORCI	EMENT
		NG 8" CMU'S @ F							
		#5 [H] @ 16" ON							
		RS ARE DOWELS							-500,
		D 3/4 DIAMETER							
		2-3 NORTH BUIL							
AT THE SH	EAR WALL AL	ONG GRID LINE L	13 & L-14.1, PC	S IS ADD	ING 2 #	8 TO MAKE UP	FOR THE DIFFE	RENCE BETV	VEEN
		PECIFIED 8 #9 PE							
		CN15 BETWEEN							
4 #9 SIMILA	R TO RFI #219	PCS ADDED 2	#8 BARS TO MA	KE UP TI	HE ARE	A OF STEEL RE	QUIRED, THIS IS	S ACCEPTAB	LE
PER RFI #2	25.						 		
EPOXY #4 I	DOWELLS 12"	ON CENTER FOR	RAMP WALL G	RID LINE	B,4/3.	5-4, DRILLED 5	/8 DIAMETER X :	5" EMBEDME	NT.
CLEANED I	HOLES OUT W	ITH BLOWER & N	YLON BRUSH A	CCEPTA	BLE.				
				SAM	PLES				
SUPPLIER:									
MIXED NO	TICKET#	DESIGN SLUMP	MEASURED SLUMP	ADMIX	TURE	DESIGN PSI	CUBIC YARDS	SPECIMENS	TEMPERATURE AMB CONC.
			SLOWI	 					
				 		<u></u>			
				 			 		
				J	Τ	☐ Contai	ine .	l.,	
] Additional Pa	ige (Page #) CM			 	REP	ORT	Not Contain	No	on-Compliant Items
	Certifi	cation of Complianc	e		Allins	oections based on min	mum of 4 hours for work	performed over 4 ho	ours = 8 hours minimum
nowledge the work of	luring the period con	the above statements and vered by this report has ations and all applicable or	been performed and	vn personal installed in	If insp	ector is called to a proj	ect and no work is perform	med a 2 hour minimu	ITII Charge Will be applied
nspectors Name		GORDON_LI	EWIS		Appr	oved Authorized b		PROJECT SUPERINTE	NOEND
Inspectors Signati	ıre J	relon o	Tewis				ŋ	-ROUGE SUPERINTE	1
Inspectors License	e#	5009669-84 / 5	5009669-85		Subr	nitted by	<u>,</u>		
				ACCO	UNTING			- 0	



Inspection Report

			11.12		II I (CP	OI C						
ISPECTOR CODE		JOB NUMBER	05-1425	1	DATE	October 9, 20			FSS			
B NAME Universit	ty of California of	Riverside C.H.	A.S.S.	E	BUILD PERM	IT NUMBER / D	SA / OSHPD APP FIL	.E#	Riverside			
DRESS	nyon Crest Dr.		CITY Riverside		GENERAL CO	ONTRACTOR	S.J. Amoroso					
CHITECT Leo D	ailv	ENGINEER Sai	iful/Bouquet	-			Pacific Coast Stee					
	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		number per sheet	ldentify all	fy all work by type and SPECIFIC location. Non-compliant work must be specifically is must be listed. Record conversations and communications with project designers,							
entified. Commu ilding and permit	nication (RFI Ske granting authorit	tch, etc.) voiding pre y officials.	evious non-complia	int items mi	ust de listed	. Record conve	ersauoris and comm	nunicauons with	project designere,			
namy and part	<u> </u>			HOL								
REGUL	AR	1.5X		2)	Κ		7:00 AM		ME OUT			
8						<u> </u>	7.00 AW	2.\				
]			Show-Up	Only			Expense	es				
Reinforcemer	nt Concrete	Co	ncrete Placement		X	Masonry	X Reint	orcement Masor	nry			
-	ol [Administration		Prestress/I	Post Tension	1	Other					
•				INSPE	CTION							
TARTED @:		1st TRUCK BATCH	HED:		METHOD	OF PLACEM	ENT:					
	ION OF 9" CMI	J PLACEMENT @	DEDIMETER OF	FI FVAT	OR 1 & 2	5 COURSES	WHICH MAKES	IT 2 COURSE	S			
		FORCEMENT #5										
		PORT PER DETAI										
		PER DETAIL 2 / S		RCO FRE	IVIIA TIFE	OWONIAN	MORTAL	<u> </u>				
		EMENT ON GOIN			IDI ETED E	CAME ON C	DID LINE DV DE	AM #RN11 EC	NIR PLACES &			
		MENT @ LEVEL 3										
		R-12 BEAM #BN31		GRID LIN	NE 17-P BE	AIVI # DINZ4,	PER BEAM SCIT	LDOLL DE IA	<u> </u>			
REINFORC	EMENT PLACE	MENT ON GOING)									
 												
							<u></u>					
<u>.</u>												
									·			
				SAM	PLES							
SUPPLIER:									T TENDEDATURE			
MIXED NO	TICKET#	DESIGN SLUMP	MEASURED SLUMP	ADMIXT	TURE	DESIGN PSI	CUBIC YARDS	SPECIMENS	TEMPERATURE AMB CONC.			
 												
												
		-										
	l		<u> </u>	<u> </u>		_ Contain	ns	l	<u> </u>			
Additional Pa	age (Page#) CM				REPOR'		lot Contain	No	on-Compliant Items			
	Certifi	cation of Compliance	9		A 11 :	and an mini	num of 4 hours for work	performed over 4 ho	urs = 8 hours minimum			
declare under penalt	v of neciuny that all of	the above statements are	e true and the of my ow	n personal	If inspector	is called to a proje	ct and no work is perfor	ned a 2 hour minimu	m charge will be applied			
rnowledge the work of	turing the period cov	vered by this report has ations and all applicable co	been performed and	installed in	1				2			
		GORDON LE			Approve	d Authorized b	\sim	100	10			
Inspectors Name Inspectors Signat		don Lo	1111				(F	ROJECT SUPERINTER	DEVID			
inspectors Signat Inspectors Licens		5009669-84 / 5	5009669-85		Submitte	ed by		ノ門	Til A year			
HOPEUNIO LICEIIS		5555555°O-7										



TESTING EN	GINEERS		Inst	oectio	n Re	eport				
INSPECTOR CODE		JOB NUMBER			DATE					
JOB NAME Universit	y of California of F	Riverside C.H.				BUILD PERMIT NUMBER / DSA / OSHPD APP FILE# Riverside				
ADDDESS	nyon Crest Dr.		CITY Riverside			GENERAL CONTRACTOR S.J. Amoroso				
ARCHITECT Leo D		ENGINEER	ENGINEER Saiful/Bouquet			SUBCONTRACTOR (If Any) Pacific Coast Steel				
REQUIREMENTS:	Limit of one job a	number one permit ch, etc.) voiding pre	number per sheet	. Identify al ant items m	l work b	y type and SPECIF sted. Record conve	IC location. Non-cersations and comme	ompliant work m nunications with	ust be specificall project designers	
building and permit	granung aumonty	Officials.		НОГ	JRS					
REGULAR		1.5X			2X		TIME IN	TIME OUT		
8							7:00 AM	00 AM 2:00 PM		
		Show-Up Only			Expenses					
Reinforcemen	nt Concrete	X Co	ncrete Placement		[Masonry	Rein	forcement Maso	пгу	
 ☐ Quality Contro	oll	Administration	🗆	Prestress/	Post Ter	nsion	Other			
				INSPE	CTIO	N				
STARTED @:		1st TRUCK BATC	HED:		MET	HOD OF PLACEM	ENT:			
,	ION OF CONCE	ETE PLACEMEN	T@15/FL3-4	SHEAR V	VALLS	& COLUMNS SO	UTH BUILDING.			
		O COLUMN GRID								
		E PLACEMENT								
		PSI CONCRETE								
		DATION, USED B								
		S @ SHEAR WA								
				SAM	PLES					
SUPPLIER:		ROBERTSON'S	3							
MIXED NO	TICKET#	DESIGN SLUMP	MEASURED	ADMIX	TURE	DESIGN PSI	CUBIC YARDS	SPECIMENS	TEMPERATURE AMB CONC.	
44243	4701098	4	SLUMP 4	<u> </u>		5000	10	4	62 62	
				 						
Additional Pa	nge (Page #) CM				REP	ORT Contain	ns lot Contain	No	n-Compliant Item	
Certification of Compliance I declare under penalty of perjury that all of the above statements are true and the of my own personal knowledge the work during the period covered by this report has been performed and installed in					All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours minimum if inspector is called to a project and no work is performed a 2 hour minimum charge will be applied					
compliance with the approved plans specifications and all applicable codes										
Inspectors Name			GORDON LEWIS			roved Authorized b	y	PROJECT SUPERINTE	(DENT)	
Inspectors Signature <u>Jordon Jewis</u>								an.	ATTAL	
Inspectors License # 5009669-48						Submitted by				
				ACCO	UNTING	i		~		



3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

Inspection Report JOB NUMBER INSPECTOR CODE 05-1425 October 11, 2006 BUILD PERMIT NUMBER / DSA / OSHPD APP FILE# JOB NAME University of California of Riverside Riverside C.H.A.S.S. GENERAL CONTRACTOR Riverside 3615 Canyon Crest Dr. SUBCONTRACTOR (If Any) Pacific Coast Steel Saiful/Bouquet Leo Daily REQUIREMENTS: Limit of one job number one permit number per sheet. Identify all work by type and SPECIFIC location. Non-compliant work must be specifically identified. Communication (RFI Sketch, etc.) voiding previous non-compliant items must be listed. Record conversations and communications with project designers, building and permit granting authority officials. HOURS TIME IN TIME OUT 1.5X REGULAR 2:00 PM 7:00 AM R _____ Expenses Show-Up Only X Masonry X Reinforcement Masonry Reinforcement Concrete _____ Concrete Placement Quality Control ____ Administration ____ Prestress/Post Tension ____ Other INSPECTION METHOD OF PLACEMENT: 1st TRUCK BATCHED: STARTED @: OBSERVATION OF CMU PLACEMENT @ PERIMETER OF ELEVATOR 1 & 2, COMPLETED 9 COURSES ABOVE LEVEL 3. REINFORCEMENT #5 [V] @ 8" ON CENTER & #5 [H] @ 16" ON CENTER, LAPS 48 BAR DIAMETERS PER DETAIL 2 / S-004, INSTALLED BRICK VENEER SUPPORT EMBED PER DETAIL 7 / S-004, CHECKED CLEAN OUTS EVERY 32" ACCEPTABLE, GROUTING 12' LIFT. INTERIOR REINFORCEMENT GRID LINE 3.6 ELEVATOR DOORS #4 @ 16" ON CENTER EACH WAY. ABOVE WALLS 8" CMU'S. OBSERVATION OF REINFORCEMENT PLACEMENT @ LEVEL 3 NORTH BUILDING, COMPLETED BEAMS #BN35A, BN35 THREE PLACES, BN30, BN5, BN24 TWO PLACES, BN11 FOUR PLACES, BN24 TWO PLACES, BN15, BN7, BN31 TWO PLACES, THIS IS ALL THE BEAMS @ LEVEL 3 ON DRAWING S-107. REINFORCEMENT PER DETAIL 1 / S-400. COMPLETED BOTTOM LAYER AT LEVEL 3 NORTH BUILDING #5 @ 12" ON CENTER EACH WAY, OUTER LAYER NORTH-SOUTH DIRECTION PER DETAIL 1/S-404. REINFORCEMENT PLACEMENT ONGOING. **SAMPLES** SUPPLIER: TEMPERATURE MEASURED CUBIC YARDS SPECIMENS **ADMIXTURE** DESIGN PSI DESIGN SLUMP TICKET# AMB CONC. MIXED NO SLUMP REPORT Contains Non-Compliant Items Additional Page (Page #) CM Does Not Contain Certification of Compliance All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours minimum If inspector is called to a project and no work is performed a 2 hour minimum charge will be applied i declare under penalty of perjury that all of the above statements are true and the of my own personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans specifications and all applicable codes < Approved Authorized by GORDON LEWIS Inspectors Name SUPERINTENDENT Inspectors Signature Submitted by Inspectors License # 5009669-48 / 5009669-84

ACCOUNTING



3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 ● 714/556-5868

Inspection Report JOB NUMBER INSPECTOR CODE October 12, 2006 05-1425 BUILD PERMIT NUMBER / DSA / OSHPD APP FILE JOB NAME Riverside University of California of Riverside C.H.A.S.S. GENERAL CONTRACTOR Riverside 3615 Canyon Crest Dr. SUBCONTRACTOR (If Any) Pacific Coast Steel Saiful/Bouquet Leo Daily REQUIREMENTS: Limit of one job number one permit number per sheet. Identify all work by type and SPECIFIC location. Non-compliant work must be specifically identified. Communication (RFI Sketch, etc.) voiding previous non-compliant items must be listed. Record conversations and communications with project designers, building and permit granting authority officials. HOURS TIME OUT TIME IN 1.5X REGULAR 2:00 PM 7:00 AM 8 Expenses Show-Up Only Reinforcement Masonry _____ Concrete Placement Masonry Reinforcement Concrete ___ **GROUT PLCEMENT** Quality Control _____ Administration ____ Prestress/Post Tension _ X Other _ INSPECTION METHOD OF PLACEMENT: STARTED @: 1st TRUCK BATCHED: OBSERVATION OF GROUT PLACEMENT, 12' LIFT 5 COURSES ABOVE LEVEL 3 ELEVATOR 1 & 2 PERIMETER WALLS. USED ELECTRIC VIBRATOR FOR CONSOLIDATION, PLACED APPROXIMATELY 8 CU. YDS. RANCHO READY MIX GROUT. MIX #CHJ 05404 / 2500 PSI. MADE 1 SET OF 4 GROUT SAMPLES @ GRID LINE J.5-4 LEVEL 3. OBSERVATION OF REINFORCEMENT PLACEMENT @ LEVEL 3 NORTH BUILDING, COMPLETED ADDED BARS BOTTOM @ ALL LOCATIONS NOTED ON DRAWING S-107R, IN PROCESS OF INSTALLING TOP LAYER #5 @ 12" ON CENTER EACH WAY, PER NOTE #3 ON S-107. IN PROCESS OF INSTALLING SHEAR BANDS @ GRID LINE M-13 PER DETAIL 1/S-403. REINFORCEMENT PLACEMENT ON GOING **SAMPLES** RANCHO READY MIX SUPPLIER: EMPERATURE MEASURED CUBIC YARDS **SPECIMENS** DESIGN SLUMP **ADMIXTURE DESIGN PSI** TICKET# AMB CONC. MIXED NO SLUMP 8 4 58 2500 9 R-CRETE 2306709 CHJ 05404 Contains REPORT Additional Page (Page #) CM Does Not Contain Certification of Compliance = 8 hours minimum All inspections based on minimum of 4 hours for work parts If inspector is called to a project and no work is performed a 2 hour minimum charge will be applied I declare under penalty of perjury that all of the above statements are true and the of my own personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans specifications and all applicable codes Approved Authorized by GORDON LEWIS Inspectors Name PROJECT SUPERINTENDE Inspectors Signature Submitted by 5009669-48 / 5009669-84 Inspectors License #



3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 ● 714/556-5868

TESTING ENGINEERS		Inst	pectio	n Re	eport							
INSPECTOR CODE	JOB NUMBER	05-1425		DATE	October 13,	2006	T W	FSS				
JOB NAME University of California of Riv	erside C.H.A.	S.S.		BUILD PI	ERMIT NUMBER / D	SA / OSHPD APP FI	LE#	Riverside				
ADDRESS 3615 Canyon Crest Dr.	CIT			GENERA	L CONTRACTOR	S.J. Amoroso						
ARCHITECT Leo Daily	ENGINEER Saiful	/Bouquet		SUBCON	ITRACTOR (If Any)	Pacific Coast Stee	 I					
DECUIDEMENTS: Limit of one job pur	mber one permit nu	mher ner sheet	Identify a	l work by	type and SPECIF	IC location. Non-c	ompliant work n	nust be specificall				
identified. Communication (RFI Sketch, building and permit granting authority of	, etc.) voiding previo	ous non-complia	nt items m	iust be li	sted. Record conve	ersations and com	nunications with	project designers				
				OURS								
REGULAR	1.5X		2	Χ		7:00 AM	2:00 PM					
8						7.00 AW						
		Show-Up	Only			Expens	es					
X Reinforcement Concrete	Conc	rete Placement		[Masonry	Rein	forcement Masc	nry				
Quality Control	Administration	□	Prestress/	Post Ter	nsion	Other						
			INSPE	CTIO	N							
STARTED @: 1s	TARTED @: 1st TRUCK BATCHED: METHOD OF PLACEMENT:											
COMPLETED REINFORCEME	OMPLETED REINFORCEMENT PLACEMENT @ LEVEL 3 NORTH BUILDING, #5 [T&B] @ 12" ON CENTER EACH WAY PER											
NOTE #3 ON DRAWING S-107												
SHEAR BANDS INSTALLED @								ENT				
FOR DROP PANEL @ GRID L												
BEAM BN24 @ LEVEL 3 GRID				EINFO	RCEMENT @ TH	IE 10" FLOOR A	REA WEST O	F				
BEAM, REINFORCEMENT WA												
SLAB DOWELLS INSTALLED					2-22.9 @ 12" ON	CENTER PER	DETAIL 9 / S-8	304.				
OD ID DOTFEED INOTFIEED												
			SAM	PLES								
SUPPLIER:	···											
MIXED NO TICKET#	DESIGN SLUMP	MEASURED SLUMP	ADMIX	TURE	DESIGN PSI	CUBIC YARDS	SPECIMENS	TEMPERATURE AMB CONC.				
Additional Page (Page #) CM				REP	ORT Contain	is lot Contain	No	on-Compliant Item				
Certification	on of Compliance							- PARTS				
I declare under penalty of perjury that all of the a knowledge the work during the period covered compliance with the approved plans specifications	n personal nstalled in	All inspections based on minimum of 4 hours for work performed over 4 hours and hours and hours in the first performed a 2 hours and hours and hours applied a 2 hours and h										
Inspectors Name	GORDON LEW	IS		Approved Authorized by (PROJECT SUPERINTENDENT)								
Inspectors Signature Docu	don Jes	vs.				(F	NOVEGE SUPERINCE	1941)				
Inspectors License # 50096-6948 Submitted by												



3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

TESTING ENG			Insp	ectio	n Rep	ort		/ 14/3	130-3007	,	7,55	3-3000	
INSPECTOR CODE	71572776	JOB NUMBER	1425	C	DATE /	1-18-00	M	T	X	F	S	S	
IOR NAME	CHASS			E	BUILD PER	MIT NUMBER / DSA /	OSHPD APP. FILE	#	JUF	RISDIC	TION		
ADDRESS	Parison C	PLEST De. CI	RIVERS		SENERAL	CONTRACTOR A	MORO	50					
ARCHITECT (CEO 1)	2/1	ENGINEER L	1-Bound	والمصيدان	SUBCONT	RACTOR (If Any)	<u></u>						
REQUIREMENT specifically ident	「S: L√mit of one jo! tified. Communica	o number, one per tion (RFI, Sketch, ad permit granting	mit number per si etc.) voiding prev	heet. Ide vious non	ntify all v -complia	work by type and int items must be	SPECIFIC local listed, record of	ation. N convers	on-compli ations an	iant w d com	ork mu munic	ust be ations	
				HOU			TIME IN	—-Т		TIME	OUT		
REGUL	AR	1.5X		2X		3	30pm				Am		
			Chaw Up (Only				nses		<u>ر ر</u>	<i>/-</i>		
										4000			
Reinforcem	ent Concrete	Con	crete Placeme	nt	L	Masonry	∐ H	eintord	cement i	viasc	nry _		
Quality Con	itrol	Administration	ו ⊔			t rension		:I <u>/</u>				<u>-</u>	
				INSPE			<u> </u>		-				
STARTED @:	3,50 Am	1st TRUCK				THOD OF PLA	CEMENT:	1	ang	<i>-</i>			
			PAGE	- /	st.	<i>,</i>		_					
	4	SISTER	DEPLY	Ly	<u> </u>	Ewis	u/						
	TEST	ind, Q	WALITY	Col	v Hec	L, And	PI ROW	762	<i>y</i>				
	04	SSISTED ING, Q CONCRE	ts. (DE	ck.	Pour)							
		33	Sists	ox	4	Cyline	dires (ins					
		SEX!	لل	Set.			13						
Ark		580	ਨ 	58			620						
CONO		680	2	68			630						
S/u.	mp	41/2		5"	41/2"								
12-51/11	remint	0/12.5	- N	1X.5/	18:	5 N)	K.5/22.	.5					
							<u> </u>						
				SAM	PLES								
SUPPLIER:	Robert	SONS											
MIXED NO.	TICKET#	DESIGN SLUMP	MEASURED SLUMP	ADMIX	CTURE	DESIGN PSI	CUBIC YARD	s s	PECIMEN	s		RATURE CONC.	
045	4701738	5000	41/2"	~	-	5000	330		4	=	58	1680	
05512	1707750	<i>D</i>				111							
		- 54	E Di	972	-)/	126/5							
	- (5 (0			<u>. </u>	REPO	Conta			No	n-Co	molia	nt Items	
Additional	Page (Page #)					Does	Not Contain						
! declare under pen	alty of periuny that all	on of Compliand of the above statement	s are true, and that o	of my own	All inspec	ections based on minim tor is called to a projec	num of 4 hours for v t and no work is per	vork perfo formed, a	ormed over 4 2 hour mini	hours mum ch	= 8 houi arge wil	rs minimum I be applied	
personal knowledge installed in complian	the work during the pice with the approved p	eriod covered by this r lans, specifications and	all applicable codes	med and					1	/	a esse	caf.	
Inspector's N	ame GARY	, 6. BRA	NSTET	TEX	Approved/Authorized by (PROJECT SUPPRINTEDENT)								
Inspector's Si	ignature <i>Ga</i>	14 Stoll	nitetto					1110		• , 149	,		
Inspector's Li		18414			Subm	nitted by							



10600 Pioneer Boulevard, Suite G • Santa Fe Springs, California 90670 • (562) 903-0032 • Fax (562) 903-3534

REBAR TENSILE STRENGTH TEST DATA SHEET

	بيبينى	any year	-	\	
1	EN	9 E	re E	:27	١
l	EN			- 11	
l					

DATE:

9/1/2006

MILL:

Cascade

INSPECTOR'S NAME:

Reliant Testing Engineers

HEAT NUMBER:

610405

NR

JOB ADDRESS:

3615 Canyon Crest

Riverside, CA

ASTM/GRADE:

A706 / 60 / A615 / 60

...

REBAR SIZE (DIA.)

7007007710700

CONTRACTOR:

NR

MARKINGS ON REBAR C13WS4

ENGINEER:

NR

TAG/SPECIMEN ID:

. ___

PERMIT NO.

NR

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE SPECIMENS RECVD.	8/24/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	9/1/06	SN OF EQUIPMENT	74959
TECHNICIAN NAME	Mario Ayala	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

SPECIMEN I	TEST	SPECIMI	EN DATA	YIELD ST	RENGTH ¹	ULTIMATE	STRENGTH	Ft/Fy		SATION ³	BEND	TEST ⁴
ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAIL
R2884A	9/1/06	0.500	0.196	12,795	65,156	19,945	101,566	1.6	1.110	14		-
R2884B	9/1/06	-	-	•	-	-		-	-	-	х	-
						,			_			

¹ Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

TEST RESULTS:

Complies with ASTM A706 / A615

NR = Not Reported

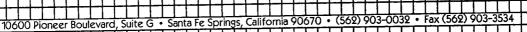
AUTHORIZED SIGNATURE

A ENTER

² Nominal Dimension

³ Elongation in 8-inches.

⁴ 180-degree bend.





REBAR TENSILE STRENGTH TEST DATA SHEET

DATE:	9/1/2006	MILL:	Cascade
INSPECTOR'S NAME:	Reliant Testing Engineers	HEAT NUMBER:	610305
JOB ADDRESS:	3615 Canyon Crest	ASTM/GRADE:	A706 / 60 / A615 / 60
JUB ADDRESS:		REBAR SIZE (DIA.)	4
	Riverside, CA	MARKINGS ON REBA	R C13WS4
CONTRACTOR:	NR		
ENGINEER:	NR	TAG/SPECIMEN ID:	NR
PERMIT NO.	NR		
	TEST / EQUIPMENT INFO	ORMATION (ASTM A615)	

TEST DATA

Tinius Olsen

2-06 / 2-07

74959

EQUIPMENT USED

SN OF EQUIPMENT

CALIB. / RECAL. DATE

					TEST DATA							-50-4
SPECIMEN ID	TEST DATE	SPECIME STRESSED DIMENSION ²	STRESSED AREA ²	YIELD ST ACTUAL LOAD LBS.	RENGTH ¹ POUNDS PER SQ. IN.	ULTIMATE ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	Ft/Fy	ELONG INCHES in.	PERCENT	PASS	TEST ⁴ FAIL
R2885A	9/1/06	0.500	0.196	13,420	68,339	20,255	103,144	1.5	1.006	13	<u>-</u>	-
R2885B	9/1/06	-	-	-		<u>.</u>	-	-	-	-	×	-
								<u></u>				

¹ Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

8/24/06

9/1/06

Mario Ayala

DATE SPECIMENS RECVD.

REPORT DATE

TECHNICIAN NAME

Complies with ASTM A706 / A615 TEST RESULTS:

NR = Not Reported

AUTHORIZED SIGNATURE



² Nominal Dimension

³ Elongation in 8-inches.

⁴ 180-degree bend.



10600 Pioneer Boulevard, Suite G • Santa Fe Springs, California 90670 • (562) 903-0032 • Fax (562) 903-3534

REBAR TENSILE STRENGTH TEST DATA SHEET

DATE:	9/1/2006	MILL:	Border	
				
INSPECTOR'S NAME:	Reliant Testing Engineers	HEAT NUMBER:	33279	
JOB ADDRESS:	3615 Canyon Crest	ASTM/GRADE:	A706 / 60	
	Riverside, CA	REBAR SIZE (DIA.)	4	
CONTRACTOR:	NR	MARKINGS ON REBAI	R <u>B13W</u>	
ENGINEER:	NR	TAG/SPECIMEN ID:	NR	
PERMIT NO.	NR			

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE SPECIMENS RECVD.	8/24/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	9/1/06	SN OF EQUIPMENT	74959
TECHNICIAN NAME	Mario Ayala	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

				IEST DATA							
TEST	SPECIME	EN DATA	YIELD ST	RENGTH ¹	ULTIMATE	STRENGTH	Ft/Fy	ELONG	SATION ³	BEND	TEST
DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAIL
9/1/06	0.500	0.196	12,720	64,774	17,720	90,236	1.4	1.321	17	-	-
9/1/06	-	-	-	-	-	-	-	-	-	x	-
							_				
	9/1/06	DATE STRESSED DIMENSION ² 9/1/06 0.500	DATE STRESSED DIMENSION2 STRESSED AREA2 9/1/06 0.500 0.196	DATE STRESSED DIMENSION2 STRESSED ACTUAL LOAD LBS. 9/1/06 0.500 0.196 12,720	TEST	TEST	TEST	TEST	DATE STRESSED DIMENSION ² STRESSED AREA ² ACTUAL LOAD LBS. POUNDS PER SQ. IN. ACTUAL LOAD LBS. POUNDS PER SQ. IN. INCHES in. 9/1/06 0.500 0.196 12,720 64,774 17,720 90,236 1.4 1.321	TEST	TEST SPECIMEN DATA YIELD STRENGTH ULTIMATE STRENGTH FUFY ELONGATION BEND

¹ Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

TEST RESULTS: Complies with ASTM A706

NR = Not Reported

AUTHORIZED SIGNATURE

A INTERES

² Nominal Dimension

³ Elongation in 8-inches.

⁴ 180-degree bend.



10600 Pioneer Boulevard, Suite G · Santa Fe Springs, California 90670 · (562) 903-0032 · Fax (56Ω) 903-3534

REBAR TENSILE STRENGTH TEST DATA SHEET

ENTERIO	/
ENIEVER	
	/

DATE:

9/1/2006

MILL:

Cascade

INSPECTOR'S NAME:

Reliant Testing Engineers

HEAT NUMBER:

448105

JOB ADDRESS:

3615 Canyon Crest

ASTM/GRADE:

A615 / 60

Riverside, CA

REBAR SIZE (DIA.)

4

CONTRACTOR:

NR

MARKINGS ON REBAR 0C13S4

00 1334

ENGINEER:

<u>NR</u>

TAG/SPECIMEN ID:

NR _____

PERMIT NO.

NR

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE SPECIMENS RECVD.	8/24/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	9/1/06	SN OF EQUIPMENT	74959
TECHNICIAN NAME	Mario Ayala	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

					IESI DAIA							
SPECIMEN	TEST	SPECIME	N DATA	VIELD ST	RENGTH ¹	ULTIMATE	STRENGTH	Ft/Fy		ATION .	BEND	TEST
ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAI
R2887A	9/1/06	0.500	0.196	12,680	64,570	20,185	102,788	1.6	1.050	13	.	-
R2887B	9/1/06	-	-	-	-	•	-		-	_	×	-
			· · · · · · ·									

Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

TEST RESULTS:

Complies with ASTM A615

NR = Not Reported

AUTHORIZED SIGNATURE

A EMERICA

² Nominal Dimension

Elongation in 8-inches.
 180-degree bend.



10600 Pioneer Boulevard, Suite G • Santa Fe Springs, California 90670 • (56Σ) 903-003Σ • Fax (56Σ) 903-3534

REBAR TENSILE STRENGTH TEST DATA SHEET

DATE:	9/1/2006	MILL:	Cascade
INSPECTOR'S NAME:	Reliant Testing Engineers	HEAT NUMBER:	573805
JOB ADDRESS:	3615 Canyon Crest	ASTM/GRADE:	A706 / 60
	Riverside, CA	REBAR SIZE (DIA.)	4
CONTRACTOR:	NR	MARKINGS ON REBAI	R 0C13W4
ENGINEER:	NR	TAG/SPECIMEN ID:	NR

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE SPECIMENS RECVD.	8/24/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	9/1/06	SN OF EQUIPMENT	74959
TECHNICIAN NAME	Mario Ayala	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

SPECIMEN	TEST	SPECIMI	EN DATA	YJELD ST	RENGTH ¹	ULTIMATE	STRENGTH	Ft/Fy	ELONG	SATION ³	BEND	TEST*
ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAIL
R2888A	9/1/06	0.500	0.196	14,240	72,514	20,125	102,482	1.4	1.364	17	•	-
R2888B	9/1/06	-	•	•	-	•	-	-	-	-	×	-

Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

NR

PERMIT NO.

⁴ 180-degree bend.
TEST RESULTS:

Complies with ASTM A706

NR = Not Reported

AUTHORIZED SIGNATURE

A

² Nominal Dimension

³ Elongation in 8-inches.



10600 Pioneer Boulevard, Suite G • Santa Fe Springs, California 90670

REBAR TENSILE STRENGTH TEST DATA SHEET

CENTER SEE	\
	1

DATE:

9/1/2006

MILL:

Cascade

INSPECTOR'S NAME:

Reliant Testing Engineers

HEAT NUMBER:

262309

3615 Canyon Crest

ASTM/GRADE:

A706 / 60 / A615 / 60

JOB ADDRESS:

Riverside, CA

REBAR SIZE (DIA.)

CONTRACTOR:

NR

NR

TAG/SPECIMEN ID:

MARKINGS ON REBAR C6WS4

NR

ENGINEER: PERMIT NO.

NR

TEST / EQUIPMENT INFORMATION (ASTM A615)

	TEOT / ENGIN MET.								
1	DATE SPECIMENS RECVD.	8/24/06	EQUIPMENT USED	Tinius Olsen					
1			SN OF EQUIPMENT	74959					
Ì	TECHNICIAN NAME	Mario Ayala	CALIB. / RECAL. DATE	2-06 / 2-07					

TEST DATA

					IESI DAIA							
ADEQUARY T	TEST	T SPECIM	EN DATA	VIELD ST	RENGTH ¹	ULTIMATE	STRENGTH	Ft/Fy		ATION3	BEND	TEST'
SPECIMEN ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAIL
R2889A	9/1/06	0.625	0.307	19,535	63,666	30,350	98,913	1.6	1.349	17	-	-
R2889B	9/1/06	-		-	-	-	-		-	-	x	-

Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

Complies with ASTM A706 / A615

NR = Not Reported

AUDHORIZED SIGNATURE

A ENT

² Nominal Dimension

³ Elongation in 8-inches. ⁴ 180-degree bend.

TEST RESULTS:

10600 Pioneer Boulevard, Suite G • Santa Fe Springs, California 90670





REBAR TENSILE STRENGTH TEST DATA SHEET

DATE:	9/1/2006	MILL:	Cascade
INSPECTOR'S NAME:	Reliant Testing Engineers	HEAT NUMBER:	025106
JOB ADDRESS:	3615 Canyon Crest	ASTM/GRADE:	A615 / 60
	Riverside, CA	REBAR SIZE (DIA.)	5
CONTRACTOR:	NR	MARKINGS ON REBAI	R 0C1654
ENGINEER:	NR	TAG/SPECIMEN ID:	NR
PERMIT NO.	NR		

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE SPECIMENS RECVD.	8/24/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	9/1/06	SN OF EQUIPMENT	74959
TECHNICIAN NAME	Mario Ayala	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

Angonieu I	TEST	SPECIME	NIDATA	VIELD ST	RENGTH ¹	ULTIMATE	STRENGTH	Ft/Fy		ATION3	BEND	TEST
SPECIMEN ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAIL
R2890A	9/1/06	0.625	0.307	20,725	67,544	33,915	110,531	1.6	0.906	11	•	-
R2890B	9/1/06	-	-	-	-	-	-	-	_	<u>-</u>	×	-

¹ Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

TEST RESULTS: Complies with ASTM A615

NR = Not Reported

AUTHORIZED SIGNATURE

A ENTER

² Nominal Dimension

³ Elongation in 8-inches. ⁴ 180-degree bend.

^{....}



10600 Pioneer Boulevard, Suite G • Santa Fe Springs, California 90670 • (562) 903-0032 • Fax (562) 903-3534

REBAR TENSILE STRENGTH TEST DATA SHEET

FILE	ELEC.
1	ا توسوسان محمد

DATE:

9/1/2006

MILL:

Tamco

NR

INSPECTOR'S NAME:

Reliant Testing Engineers

HEAT NUMBER:

62503

JOB ADDRESS:

3615 Canyon Crest

ASTM/GRADE:

A615 / 60

JOB ADDITEGO.

Riverside, CA

-

CONTRACTOR:

NR

REBAR SIZE (DIA.)

MARKINGS ON REBAR T16S

ENGINEER:

NR

TAG/SPECIMEN ID:

PERMIT NO.

NR

TEST / EQUIPMENT INFORMATION (ASTM A615)

1	DATE SPECIMENS RECVD.	8/24/06	EQUIPMENT USED	Tinius Olsen						
	REPORT DATE	9/1/06	SN OF EQUIPMENT	74959						
	TECHNICIAN NAME	Mario Ayala	CALIB. / RECAL. DATE	2-06 / 2-07						

TEST DATA

SPECIMEN I	TEST	SPECIMI	N DATA	YIELD ST	RENGTH ¹	ULTIMATE	STRENGTH	Ft/Fy		ATION ³	BEND	TEST*
ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAIL
R2891A	9/1/06	0.625	0.307	22,915	74,682	34,525	112,519	1.5	1.059	13	<u>-</u>	-
R2891B	9/1/06	-	•	-	-	-	-	•	-	-	×	-

¹ Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

TEST RESULTS:

Complies with ASTM A615

NR = Not Reported

AUTHORIZED SIGNATURE

A EVILLED

² Nominal Dimension

³ Elongation in 8-inches.

⁴ 180-degree bend.



10600 Pioneer Boulevard, Suite G · Santa Fe Springs, California 90670

REBAR TENSILE STRENGTH TEST DATA SHEET

ENT	ened /
-	_

DAT	œ٠

9/1/2006

MILL:

Sheffield

INSPECTOR'S NAME:

Reliant Testing Engineers

HEAT NUMBER:

0627636

JOB ADDRESS:

3615 Canyon Crest

ASTM/GRADE:

A615 / 60

CONTRACTOR:

NR

Riverside, CA

REBAR SIZE (DIA.)

MARKINGS ON REBAR S22S4

ENGINEER:

NR

TAG/SPECIMEN ID:

NR

PERMIT NO.

NR

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE SPECIMENS RECVO.	8/24/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	9/1/06	SN OF EQUIPMENT	74959
TECHNICIAN NAME	Mario Ayala	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

				ILSI DAIA							
TEST	SPECIME	N DATA	YIELD ST	TRENGTH ¹	ULTIMATE	STRENGTH	Ft/Fy	ELONG	ATION ³	BEND	TEST'
DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAIL
9/1/06	0.875	0.601	43,780	72,797	63,715	105,945	1.5	1.141	14	-	<u>-</u>
9/1/06	-	-	-	-	-	-	-	-	-	x	-
	9/1/06	DATE STRESSED DIMENSION ² 9/1/06 0.875	DATE STRESSED DIMENSION2 STRESSED AREA2 9/1/06 0.875 0.601	DATE STRESSED DIMENSION2 STRESSED ACTUAL LOAD LBS. 9/1/06 0.875 0.601 43,780	TEST	TEST	TEST	TEST SPECIMEN DATA YIELD STRENGTH ULTIMATE STRENGTH FUFY	TEST SPECIMEN DATA YIELD STRENGTH TULTIMATE STRENGTH FUFY ELONG	TEST SPECIMEN DATA YIELD STRENGTH ULTIMATE STRENGTH FUFY ELONGATION	TEST SPECIMEN DATA YIELD STRENGTH ULTIMATE STRENGTH FUFY ELONGATION BEND

¹ Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

TEST RESULTS:

Complies with ASTM A615

NR = Not Reported

AUTHORIZED SIGNATURE

A MILLION

² Nominel Dimension

³ Elongation in 8-inches.

⁴ 180-degree bend.



10600 Pioneer Boulevard, Suite G • Santa Fe Springs, California 90670 • (562) 903-0032 • Fax (562) 903-3534

REBAR TENSILE STRENGTH TEST DATA SHEET

DATE:	9/1/2006	MILL:	Sheffield
INSPECTOR'S NAME:	Reliant Testing Engineers	HEAT NUMBER:	0628331
JOB ADDRESS:	3615 Canyon Crest	ASTM/GRADE:	A615 / 60
	Riverside, CA	REBAR SIZE (DIA.)	6
CONTRACTOR:	NR	MARKINGS ON REBAR	s S19S4
ENGINEER:	NR	TAG/SPECIMEN ID:	NR
PERMIT NO.	NR		

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE SPECIMENS RECVD.	8/24/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	9/1/06	SN OF EQUIPMENT	74959
TECHNICIAN NAME	Mario Ayala	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

					ILUI DAIA							
SPECIMEN I	TEST	SPECIMI	EN DATA	YIELD S	TRENGTH ¹	ULTIMATE	STRENGTH	Ft/Fy	ELONO	SATION3	BEND	TEST'
ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAIL
R2893A	9/1/06	0.750	0.442	29,515	66,800	40,615	91,922	1.4	1.625	20	-	-
R2893B	9/1/06		-	-	-	-	-	-	-	-	x	-
	. <u> </u>											

¹ Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

TEST RESULTS:

Complies with ASTM A615

NR = Not Reported

AUTHORIZED SIGNATURE

A EMIL

² Nominal Dimension

³ Elongation in 8-inches.

⁴ 180-degree bend.



10600 Pioneer Boulevard, Suite G • Santa Fe Springs, California 90670

REBAR TENSILE STRENGTH TEST DATA SHEET

ENTERED	,
	,

DATE:

9/1/2006

MILL:

Sheffield

INSPECTOR'S NAME:

Reliant Testing Engineers

HEAT NUMBER:

06113591

JOB ADDRESS:

3615 Canyon Crest

ASTM/GRADE:

A615 / 60

CONTRACTOR:

NR

Riverside, CA

REBAR SIZE (DIA.)

MARKINGS ON REBAR S19S4

ENGINEER:

NR

TAG/SPECIMEN ID:

NR_

PERMIT NO.

NR

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE SPECIMENS RECVD.	8/24/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	9/1/06	SN OF EQUIPMENT	74959
TECHNICIAN NAME	Mario Ayala	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

					ILUI DAIA		_					
SPECIMEN	TEST	SPECIME	N DATA	YIELD ST	RENGTH ¹	ULTIMATE	STRENGTH	Ft/Fy		ATION ³	BEND	TEST
ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAIL
R2894A	9/1/06	0.750	0.442	31,790	71,949	46,080	104,290	1.4	1.289	16	-	-
R2894B	9/1/06	-	-	-	-	-	-	-	-	-	x	-
				1		ŧ	1					í

Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

TEST RESULTS:

Complies with ASTM A615

NR = Not Reported

AUTHORIZED SIGNATURE

e entende

² Nominal Dimension

³ Elongation in 8-inches.

⁴ 180-degree bend.



10600 Pioneer Boulevard, Suite G • Santa Fe Springs, California 90670 • (56Ω) 903-003Ω • Fax (56Ω) 903-3534

REBAR TENSILE STRENGTH TEST DATA SHEET

DATE:	9/1/2006	MILL:	Sheffield
INSPECTOR'S NAME:	Reliant Testing Engineers	HEAT NUMBER:	0629106
JOB ADDRESS:	3615 Canyon Crest	ASTM/GRADE:	A706 / 60
	Riverside, CA	REBAR SIZE (DIA.)	8
CONTRACTOR:	NR	MARKINGS ON REBA	AR <u>S25</u> W4

TEST / EQUIPMENT INFORMATION (ASTM A615)

TAG/SPECIMEN ID:

NR

TEST / EQUIPMENT IN CHARACTER (ACTION / ACTION /							
DATE SPECIMENS RECVD.	8/24/06	EQUIPMENT USED	Tinius Olsen				
REPORT DATE	9/1/06	SN OF EQUIPMENT	74959				
TECHNICIAN NAME	Mario Ayala	CALIB. / RECAL. DATE	2-06 / 2-07				

TEST DATA

					ICOLUMN							
SPECIMEN I	TEST	SPECIME	N DATA	VIELD ST	RENGTH ¹	ULTIMATE	STRENGTH	Ft/Fy		ATION ³	BEND	TEST'
ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAIL
R2895A	9/1/06	1.000	0.786	52,915	67,365	75,730	96,410	1.4	1.543	19	-	•
R2895B	9/1/06	-	_	-	-	•	-	-	-	-	x	-
											1	
											·	

¹ Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

NR NR

ENGINEER:

PERMIT NO.

Complies with ASTM A706

NR = Not Reported

AUTHORIZED SIGNATURE

A INTERIOR

² Nominal Dimension

³ Elongation in 8-inches.

⁴ 180-degree bend.
TEST RESULTS:



10600 Pioneer Boulevard, Suite G • Santa Fe Springs, California 90670 • (562) 903-0032 • Fax (562) 903-3534

REBAR TENSILE STRENGTH TEST DATA SHEET

DATE:

9/12/2006

MILL:

Cascade

INSPECTOR'S NAME:

Reliant Testing Engineers

HEAT NUMBER:

265106

NR

JOB ADDRESS:

3615 Canyon Crest Drive

ASTM/GRADE:

A706 / A615 / 60

Riverside, Ca

REBAR SIZE (DIA.)

CONTRACTOR:

P.C. Steel

,,__,,

MARKINGS ON REBAR: C13WS4

ENGINEER:

NR

TAG/SPECIMEN ID:

PERMIT NO.

NR

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE SPECIMENS RECVD.	9/8/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	9/12/06	SN OF EQUIPMENT	74959
TECHNICIAN NAME	Mario Ayala	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

L ODEOUGN T	TEST	SDECIME	EN DATA	VIELD ST	RENGTH ¹	ULTIMATE	STRENGTH	Ft/Fy		ATION ³	BEND	TEST
SPECIMEN ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAIL
R2979A	9/12/06	0.500	0.196	14,515	73,915	21,050	107,193	1.5	1.516	19	-	-
R2979B	9/12/06	_	•	-	-		-	-	-	-	x	-
				-								

¹ Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

TEST RESULTS:

Complies with ASTM A615 / A706

AUTHORIZED SIGNATURE

NR = Not Reported

A

7/01 V1

² Nominal Dimension

³ Elongation in 8-inches.

⁴ 180-degree bend.

0600 Pioneer Boulevard, Suite G • Santa Fe Springs, California 90670 • (562) 903-0032 • Fax (562) 903-3534



REBAR TENSILE STRENGTH TEST DATA SHEET

DATE:	9/12/2006	MILL:	Cascade
INSPECTOR'S NAME:	Reliant Testing Engineers	HEAT NUMBER:	448105
JOB ADDRESS:	3615 Canyon Crest Drive	ASTM/GRADE:	A615 / 60
	Riverside, Ca	REBAR SIZE (DIA.)	4
CONTRACTOR:	P.C Steel	MARKINGS ON REBAR	C13S4
ENGINEER:	NR	TAG/SPECIMEN ID:	Blue Tag
PERMIT NO.	NR		

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE SPECIMENS RECVD.	9/8/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	9/12/06	SN OF EQUIPMENT	74959
TECHNICIAN NAME	Mario Ayala	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

SPECIMEN	TEST	SPECIM	EN DATA	YIELD ST	RENGTH ¹	ULTIMATE	STRENGTH	Ft/Fy		ATION ³	BEND	TEST ⁴
ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS	POUNDS PER SQ. IN		INCHES in.	PERCENT %	PASS	FAIL
R2980A	9/12/06	0.500	0.196	12,435	63,323	20,145	102,584	1.6	0.893	11	-	-
R2980B	9/12/06	-	-	-	_	-	-	-	-	-	×	-

Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

Nominal Dimension

Elongation in 8-inches

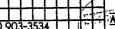
* 180-degree bend
TEST RESULTS:

Complies with ASTM A615

NR = Not Reported

AUTHORIZED SIGNATURE

A IMILI



10600 Pioneer Boulevard, Suite G • Santa Fe Springs, California 90670 • (562) 903-0032 • Fax (562) 903-3534

ACCREDITED

REBAR TENSILE STRENGTH TEST DATA SHEET

DATE:	9/12/2006	MILL:	Japan
INSPECTOR'S NAME:	Reliant Testing Engineers	HEAT NUMBER:	505175
JOB ADDRESS:	3615 Canyon Crest Drive	ASTM/GRADE:	A615 / 60
	Riverside. Ca	REBAR SIZE (DIA.)	4
CONTRACTOR:	P C Steel	MARKINGS ON REBAR	Japan4S60
ENGINEER:	NR	TAG/SPECIMEN ID:	Blue Tag
PERMIT NO.	NR		

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE SPECIMENS RECVD.	9/8/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	9/12/06	SN OF EQUIPMENT	74959
TECHNICIAN NAME	Mario Ayala	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

					1001 -7117							
SPECIMEN	TEST	SPECIME	N DATA	VIELD ST	RENGTH1	ULTIMATE	STRENGTH	Ft/Fy		ATION ³	BEND	TEST*
ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ IN		INCHES in.	PERCENT %	PASS	FAIL
R2981A	9/12/06	0.500	0.196	12,475	63,526	19,910	101,388	1.6	1.354	17	<u>.</u>	
R2981B	9/12/06	-	-	-	-	-	-	-	-	-	×	-

Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1

Nominal Dimension

Elongation in 8-inches

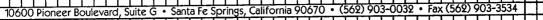
180-degree bend

TEST RESULTS:

Complies with ASTM A615

NR = Not Reported

AUTHORIZED SIGNATURE





REBAR TENSILE STRENGTH TEST DATA SHEET

DATE:	9/12/2006	MILL:	Taiwan					
INSPECTOR'S NAME:	Reliant Testing Engineers	HEAT NUMBER:	54599					
JOB ADDRESS:	3615 Canyon Crest Drive	ASTM/GRADE:	A615 / 60					
	Riverside, Ca	REBAR SIZE (DIA.)	4					
CONTRACTOR:	P.C. Steel	MARKINGS ON REBAR	R WCTAIWAN4S60					
ENGINEER:	NR	TAG/SPECIMEN ID:	Blue Tag					
PERMIT NO.	NR							
	TEST / EQUIDMENT INEQUINATION (ASTM A615)							

DATE SPECIMENS RECVD.	9/8/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	9/12/06	SN OF EQUIPMENT	74959
TECHNICIAN NAME	Mario Ayala	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

	7507	CDECIM	EN DATA	VIELD 67	RENGTH ¹	ULTIMATE	STRENGTH	Ft/Fy	ELONG	ATION ³	BEND	TEST ⁴
SPECIMEN 4D NUMBER	TEST	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ IN		INCHES in.	PERCENT %	PASS	FAIL
R2982A	9/12/06	0.500	0.196	13,805	70,299	20,005	101,871	1.4	1.217	15	-	-
R2982B	9/12/06	-	-	-	-	•	-	-	-	-	×	-
			1									
					_							· ·

Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

Nominal Dimension

Elongation in 8-inches.

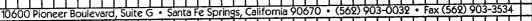
180-degree bend

TEST RESULTS:

Complies with ASTM A615

NR = Not Reported

ANTHORIZED SIGNATURE





REBAR TENSILE STRENGTH TEST DATA SHEET

DATE:	9/12/2006	MILL:	Feng Hsin
INSPECTOR'S NAME:	Reliant Testing Engineers	HEAT NUMBER:	384542
JOB ADDRESS:	3615 Canyon Crest Drive	ASTM/GRADE:	A615 / 60
JOB ADDITEGO.		REBAR SIZE (DIA.)	4
	Riverside. Ca	MARKINGS ON REBAR	FHTWN4S60
CONTRACTOR:	P.C. Steel		Blue Tag
ENGINEER:	NR	TAG/SPECIMEN ID:	Dide Tag

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE SPECIMENS RECVD.	9/8/06	EQUIPMENT USED	Tinius Olsen							
REPORT DATE	9/12/06	SN OF EQUIPMENT	74959							
	Mario Ayala	CALIB. / RECAL. DATE	2-06 / 2-07							

TEST DATA

				YIELD STRENGTH ULTIMATE STRENGTH					ELONGATION ³		BEND TEST	
SPECIMEN ID	TEST DATE	SPECIMI STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAIL
R2983A	9/12/06	0 500	0.196	13,490	68,695	19,555	99,580	1.4	1.094	14	-	-
R2983B	9/12/06	-	-	-	-	-	-	-	-	-	х	-

based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

NR

Nominal Dimension

PERMIT NO.

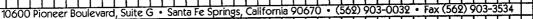
Elongation in 8-inches.
180-degree bend

TEST RESULTS:

Complies with ASTM A615

NR = Not Reported

AUTHORIZED SIGNATURE





REBAR TENSILE STRENGTH TEST DATA SHEET

DATE:	9/12/2006	MILL:	Sheffield
INSPECTOR'S NAME:	Reliant Testing Engineers	HEAT NUMBER:	0611359
JOB ADDRESS:	3615 Canyon Crest Drive	ASTM/GRADE:	A615 / 60
	Riverside, Ca	REBAR SIZE (DIA.)	6
CONTRACTOR:	P.C. Steel	MARKINGS ON REBAR	R S19S4
ENGINEER:	NR	TAG/SPECIMEN ID:	Blue Tag
PERMIT NO.	NR		

TEST / EQUIPMENT INFORMATION (ASTM A615)

I	DATE SPECIMENS RECVD.	9/8/06	EQUIPMENT USED	Tinius Olsen						
	REPORT DATE	9/12/06	SN OF EQUIPMENT	74959						
	TECHNICIAN NAME	Mario Ayala	CALIB. / RECAL. DATE	2-06 / 2-07						

TEST DATA

		4550141	THE DATA	WELDCT	RENGTH ¹	ULTIMATE	STRENGTH	Ft/Fy	ELONG	SATION ³	BEND	TEST
SPECIMEN ID	DATE	STRESSED	EN DATA STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ IN		INCHES in.	PERCENT	PASS	FAIL
R2984A	9/12/06	0.750	0.442	31,730	71,813	46,025	104,166	1.5	1.342	17	-	-
R2984B	9/12/06	-	-	-	-	-	~	-	-	-	×	-
											l L	
				-								

Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

Nominal Dimension

Elongation in 8-inches

4 180-degree bend.

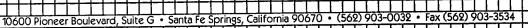
TEST RESULTS:

Complies with ASTM A615

NR = Not Reported

AUTHORIZED SIGNATURE

JA ENTER





REBAR TENSILE STRENGTH TEST DATA SHEET

DATE:	9/12/2006	MILL:	Cascade
INSPECTOR'S NAME:	Reliant Testing Engineers	HEAT NUMBER:	330806
JOB ADDRESS:	3615 Canyon Crest Drive	ASTM/GRADE:	A615 / 60
	Riverside, Ca	REBAR SIZE (DIA.)	7
CONTRACTOR:	P.C. Steel	MARKINGS ON REBAR	C22S4
ENGINEER:	NR	TAG/SPECIMEN ID:	Blue Tag

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE SPECIMENS RECVD.	9/8/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	9/12/06	SN OF EQUIPMENT	74959
TECHNICIAN NAME	Mario Ayala	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

					ILUI DAIA							
SPECIMEN	TEST	SPECIME	N DATA	YIELD ST	RENGTH 1	ULTIMATE	STRENGTH	Ft/Fy		ATION ³	BEND	TEST4
ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAIL
R2985A	9/12/06	0.875	0.601	40,825	67,883	64,770	107,699	1.6	1.158	14		<u>-</u>
R2985B	9/12/06	-	-	-	-	-	-	-	•	-	×	<u>-</u>
												·
						,						

Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

NR

' Nominal Dimension

PERMIT NO.

Elongation in 8-inches.

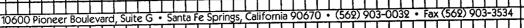
* 180-degree bend.
TEST RESULTS:

Complies with ASTM A615

NR = Not Reported

AUTHORIZED SIGNATURE

A ENTERED





REBAR TENSILE STRENGTH TEST DATA SHEET

		MILL:	Sheffield
DATE.	9/12/2006	IIII	
WARE OF ORIGINAME.	Reliant Testing Engineers	HEAT NUMBER:	0627955
INSPECTOR'S NAME:	Reliant Testing Engineers		
JOB ADDRESS:	3615 Canyon Crest Drive	ASTM/GRADE:	A615 / 60
SOD ADDITECT.		REBAR SIZE (DIA.)	8
	Riverside, Ca	REBAR SIZE (DIA.)	
		MARKINGS ON REBAR	R S25S4
CONTRACTOR:	P C Steel		
	NR	TAG/SPECIMEN ID:	Blue Tag
ENGINEER:	1017		
PERMIT NO.	NR		

TEST / EQUIPMENT INFORMATION (ASTM A615)

TEST / EQUIPMENT INFORMATION (ASTRIAGES)									
DATE SPECIMENS RECVD.	9/8/06	EQUIPMENT USED	Tinius Olsen						
REPORT DATE	·	SN OF EQUIPMENT	74959						
	· · · · · · · · · · · · · · · · · · ·	CALIB. / RECAL. DATE	2-06 / 2-07						
LECUMICIAN MAINE	Trianto i ty = 1 =								

TEST DATA

					TEST DATA						DEND	TEST ⁴
SPECIMEN ID	TEST DATE	SPECIME STRESSED DIMENSION ²	N DATA STRESSED AREA ²	YIELD ST ACTUAL LOAD LBS.	RENGTH ¹ POUNDS PER SQ. IN.	ULTIMATE ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	Ft/Fy	INCHES in.	ATION ³ PERCENT %	PASS	FAIL
R2986A	9/12/06	1.000	0.786	49,195	62,629	69,870	88,950	1.4	2.085	26	-	-
R2986B	9/12/06	-		-	-	-	-	-	-	-	×	-
							<u> </u>					

Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

Nominal Dimension

Elongation in 8-inches

180-degree bend

TEST RESULTS:

Complies with ASTM A615

NR = Not Reported

AUTHORIZED SIGNATURE



10600 Pioneer Boulevard, Suite G • Santa Fe Springs, California 90670 • (56Ω) 903-003Ω • Fax (56Ω) 903-3534

REBAR TENSILE STRENGTH TEST DATA SHEET

ENTERED

DATE:

9/12/2006

MILL:

HEAT NUMBER:

ASTM/GRADE:

Cascade

INSPECTOR'S NAME:

Reliant Testing Engineers

452205

....

JOB ADDRESS:

3615 Canyon Crest Drive

A706 / 60

Riverside, Ca

REBAR SIZE (DIA.)

MARKINGS ON REBAR C13W4

1

CONTRACTOR:

Pacific Cast Steel

TAG/SPECIMEN ID:

Green Tag

ENGINEER: PERMIT NO.

NR NR

.____

TEST / EQUIPMENT INFORMATION (ASTM A615)

	[E3]	EGOIT MENT IN OTHER	,
DATE SPECIMENS RECVD.	9/8/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	· · · · · · · · · · · · · · · · · · ·	SN OF EQUIPMENT	74959
TECHNICIAN NAME	Mario Ayala	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

					TEST DATA			FAIR	FLONG	ATION ³	BEND	TEST1
SPECIMEN ID	TEST DATE	SPECIMI STRESSED DIMENSION ²	STRESSED AREA ²	YIELD ST ACTUAL LOAD LBS.	RENGTH ¹ POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN	Ft/Fy	INCHES in.	PERCENT 04	PASS	FAIL
R2987A	9/12/06	0.500	0.196	13,360	68,033	19,280	98,180	1.4	1.265	16	-	-
R2987B	9/12/06		-	-	•	-	-		-	-	×	-
								<u> </u>				

Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

Nominal Dimension

Elongation in 8-inches

186-degree bend

Complies with ASTM A706

NR = Not Reported

AUTHORIZED SIGNATURE

1



10600 Pioneer Boulevard, Suite G • Santa Fe Springs, California 90670 • (56Σ) 903-003Σ • Fax (56Σ) 903-3534

ENTERES

REBAR TENSILE STRENGTH TEST DATA SHEET

DATE:	9/12/2006	MILL:	Wei Chih
INSPECTOR'S NAME:	Reliant Testing Engineers	HEAT NUMBER:	51881
JOB ADDRESS:	3615 Canyon Crest Drive	ASTM/GRADE:	A615 / 60
	Riverside, Ca	REBAR SIZE (DIA.)	5
CONTRACTOR:	Pacific Cast Steel	MARKINGS ON REBAI	R JAPAN5S60
ENGINEER:	NR	TAG/SPECIMEN ID:	Green Tag
PERMIT NO.	NR		

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE SPECIMENS RECVD.	9/8/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	9/12/06	SN OF EQUIPMENT	74959
TECHNICIAN NAME	Mario Ayala	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

									7	- 1		
SPECIMEN	TEST	SPECIME	EN DATA	YIELD ST	TRENGTH1	ULTIMATE	ULTIMATE STRENGTH		Ft/Fy ELONGATION3		REND	IEST4
ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS	POUNDS PER SQ IN		INCHES in.	PERCENT %	PASS	FAIL
R2988A	9/12/06	0.625	0.307	19,310	62,933	29,995	97,756	1.6	1.311	16		-
R2988B	9/12/06	-	-	-	-	-	-		-	-	×	-
	-	~										

Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

Normal Dimension

Elongation in 8-inches 180-degree bend

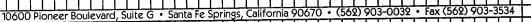
TEST RESULTS:

Complies with ASTM A615

NR = Not Reported

AUTHORIZED SIGNATURE

A MILL





REBAR TENSILE STRENGTH TEST DATA SHEET

	9/12/2006	MILL:	Cascade
DATE:	9/12/2000		
INSPECTOR'S NAME:	Reliant Testing Engineers	HEAT NUMBER:	025706
JOB ADDRESS:	3615 Canyon Crest Drive	ASTM/GRADE:	A615 / 60
	Riverside, Ca	REBAR SIZE (DIA.)	5
CONTRACTOR:	Pacific Cast Steel	MARKINGS ON REBAR	R C16S4
ENGINEER:	NR	TAG/SPECIMEN ID:	Green Tag
PERMIT NO.	NR		

TEST / EQUIPMENT INFORMATION (ASTM A615)

Ī	DATE SPECIMENS RECVD.	9/8/06	EQUIPMENT USED	Tinius Olsen
	REPORT DATE	9/12/06	SN OF EQUIPMENT	74959
	TECHNICIAN NAME	Mario Ayala	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

					ILOI DAIA					. = : - : - 1	DEND	TECT4
SPECIMEN TEST SPECIMEN DATA			YIELD ST	YIELD STRENGTH1		STRENGTH	Ft/Fy			BEND TES		
ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS	POUNDS PER SQ. IN	ļ	INCHES in.	PERCENT %	PASS	FAIL
R2989A	9/12/06	0.625	0.307	20,035	65,295	33,720	109,896	1.7	1.311	16	-	-
R2989B	9/12/06	-	-	-	-	-	-	-	-	-	×	-

Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

Nominal Dimension

PERMIT NO.

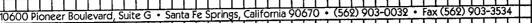
Elongation in 8-inches. 180-degree bend.

TEST RESULTS:

Complies with ASTM A615

NR = Not Reported







REBAR TENSILE STRENGTH TEST DATA SHEET

	1
	[2]
A V WARES BOARD	
	_/

DATE:

9/12/2006

MILL:

Sheffield

INSPECTOR'S NAME:

Reliant Testing Engineers

HEAT NUMBER:

0627636

JOB ADDRESS:

3615 Canyon Crest Drive

ASTM/GRADE:

A706 / 60

Riverside, Ca

REBAR SIZE (DIA.)

7

CONTRACTOR:

Pacific Cast Steel

MARKINGS ON REBAR S22W4

22W4

ENGINEER:

NR

TAG/SPECIMEN ID:

Green Tag

PERMIT NO.

NR

TEST / EQUIPMENT INFORMATION (ASTM A615)

	1591	EGOIFMENT IN ORMA	not (Activities)
DATE SPECIMENS RECVD.	9/8/06	EQUIPMENT USED	Tinius Olsen
		SN OF EQUIPMENT	74959
TECHNICIAN NAME	Mario Ayala	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

TEOT	COECIME	N DATA	VIELD ST	RENGTH1	ULTIMATE		Ft/Fy		ATION"	_ REND	TEST ¹
DATE	STRESSED	STRESSED	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT	PASS	FAIL
9/12/06	0.875	0.601	40,585	67,484	56,710	94,297	1.4	1,627	20	-	-
9/12/06	-	-		_	-	-		-	-	x	-
	-										
	9/12/06	DATE STRESSED DIMENSION ² 9/12/06 0.875	DATE STRESSED DIMENSION2 STRESSED AREA2 9/12/06 0.875 0.601	DATE STRESSED DIMENSION ² STRESSED AREA ² ACTUAL LOAD LBS. 9/12/06 0.875 0.601 40,585	DATE STRESSED DIMENSION2 STRESSED AREA2 ACTUAL LOAD LBS. POUNDS PER SQ. IN. 9/12/06 0.875 0.601 40,585 67,484	STRESSED STRESSED ACTUAL POUNDS ACTUAL LOAD LBS	STRESSED STRESSED ACTUAL POUNDS ACTUAL POUNDS PER SQ. IN.	TEST	TEST	TEST	TEST

Based on the halt of the gauge of the lest machine method - ASTM A615-9.2.1.

TEST RESULTS:

Complies with ASTM A706

NR = Not Reported

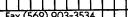
AUTHORIZED SIGNATURE

A THEFT

Nominal Dimension

Elongation in 8-inches.

¹⁸⁰⁻degree bend.









n	1 T	F	

9/12/2006

MILL:

Cascade

INSPECTOR'S NAME:

Reliant Testing Engineers

10600 Pioneer Boulevard, Suite G • Santa Fe Springs, California 90670 •

HEAT NUMBER:

346405

JOB ADDRESS:

3615 Canyon Crest Drive

ASTM/GRADE:

A706 / A615 / 60

Riverside, Ca

REBAR SIZE (DIA.)

9

CONTRACTOR:

Pacific Cast Steel

TAG/SPECIMEN ID:

MARKINGS ON REBAR C29WS4

Green Tag

ENGINEER: PERMIT NO.

NR NR

TEST / EQUIPMENT INFORMATION (ASTM A615)

		1201	Eddi men min	
ĺ	DATE SPECIMENS RECVO.	9/8/06	EQUIPMENT USED	Tinius Olsen
			SN OF EQUIPMENT	74959
	TECHNICIAN NAME	Mario Ayala	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

					1	LIL TIMATE	ULTIMATE STRENGTH		UFy ELONGATION			TEST4
SPECIMEN IU NUMBER	TEST DATE	SPECIME STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	RENGTH ¹ POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAIL
R2991A	9/12/06	1.125	0.994	66,460	66,851	94,120	94,674	1.4	1.460	18	-	-
R2991B	9/12/06	-	-	-	-	-	-	-	-	-	×	-
				İ		1		ļ			<u> </u>	

Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

Nominal Dimension

Elongation in 8-inches. 180-degree bend.

TEST RESULTS:

Complies with ASTM A706 / A615

NR = Not Reported

AUTHORIZED SIGNATURE

A TIME



10600 Pioneer Boulevard, Suite G • Santa Fe Springs, California 90670 •

REBAR TENSILE STRENGTH TEST DATA SHEET



DATE:

9/12/2006

MILL:

Sheffield

INSPECTOR'S NAME:

Reliant Testing Engineers

HEAT NUMBER:

0627180

3615 Canyon Crest Drive

ASTM/GRADE:

A615 / 60

JOB ADDRESS:

Riverside, Ca_

REBAR SIZE (DIA.)

9_

CONTRACTOR:

Pacific Cast Steel

MARKINGS ON REBAR S29S4

ENGINEER:

NR

TAG/SPECIMEN ID:

Green Tag

PERMIT NO.

NR

TEST / EQUIPMENT INFORMATION (ASTM A615)

		TEO!	Eddi MENT WITCH	
ſ	DATE SPECIMENS RECVD.	9/8/06	EQUIPMENT USED	Tinius Olsen
-			SN OF EQUIPMENT	74959
ı	TECHNICIAN NAME	Mario Ayala	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

					IESI DATA						DENO	TECT ⁴
SPECIMEN ID	TEST DATE	SPECIME STRESSED DIMENSION ²	STRESSED AREA ²	YIELD ST ACTUAL LOAD LBS.	RENGTH ¹ POUNDS PER SQ. IN.	ULTIMATE ACTUAL LOAD LBS.	STRENGTH POUNDS PER SQ. IN.	Ft/Fy	INCHES in.	ATION ³ PERCENT %	BEND PASS	FAIL
R2992A	9/12/06	1.125	0.994	64,495	64,875	91,275	91,812	1.4	1.744	22	-	-
R2992B	9/12/06	-	-	-	-	-	-	-	-	-	×	-
									<u> </u>			

Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

Numinal Dimension

Elongation in 8-inches

130-degree bend. TEST RESULTS:

Complies with ASTM A615

NR = Not Reported

AUTHORIZED SIGNATURE



0600 Pioneer Boulevard, Suite G • Santa Fe Springs, California 90670 • (562) 903-0032 • Fax (562) 903-3534

REBAR TENSILE STRENGTH TEST DATA SHEET

ENT.	
1	

$ \cap$ Δ	T	⇇	
-		-	

9/16/2006

MILL:

Sheffield

INSPECTOR'S NAME:

Reliant Testing Engineers

HEAT NUMBER:

0519611

JOB ADDRESS:

3615 Canyon Crest Drive

ASTM/GRADE:

A615 / 60

Riverside, Ca

REBAR SIZE (DIA.)

CONTRACTOR:

Pacific Coast Steel, Inc

MARKINGS ON REBAR S13S4

1354

ENGINEER:

NR

TAG/SPECIMEN ID:

Green Tag

PERMIT NO.

NR

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE SPECIMENS RECVD.	9/8/06	EQUIPMENT USED	Tinius Olsen							
REPORT DATE	9/16/06	SN OF EQUIPMENT	74959							
TECHNICIAN NAME	Mario Ayata	CALIB. / RECAL. DATE	2-06 / 2-07							

TEST DATA

SPECIMEN	TEST		SPECIMEN DATA		YIELD STRENGTH		ULTIMATE STRENGTH		Ft/Fy ELONG		GATION ³ BEND I	
NUMBLK NUMBLK	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN		INCHES in.	PERCENT %	PASS	FAIL
R3001A	9/16/06	0 500	0.196	14,215	72,387	20,415	103,959	1.4	1.160	14	-	-
R3001B	9/16/06	-	4	-	-	•	-	-	-	-	×	-

Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

Nominal Dimension

Frongation in 8-inches

180-degree bend
TEST RESULTS:

Complies with ASTM A615

NR = Not Reported

AUTHORIZED SIGNATURE

A MILLION



10600 Pioneer Boulevard, Suite G • Santa Fe Springs, California 90670 • (562) 903-0032 • Fax (562) 903-3534

(EB)

REBAR TENSILE STRENGTH TEST DATA SHEET

DATE:	9/16/2006	MILL:	Cascade
INSPECTOR'S NAME:	Reliant Testing Engineers	HEAT NUMBER:	025706
JOB ADDRESS:	3615 Canyon Crest Drive	ASTM/GRADE:	A615 / 60
	Riverside Ca	REBAR SIZE (DIA.)	5
CONTRACTOR:	Pacific Coast Steel, Inc	MARKINGS ON REBAR	C16S4
ENGINEER:	NR	TAG/SPECIMEN ID:	Green Tag
PERMIT NO.	NR		

TEST / EQUIPMENT INFORMATION (ASTM A615)

	124.	24011 1112111 1111	
DATE SPECIMENS RECVD.	9/8/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	9/16/06	SN OF EQUIPMENT	74959
TECHNICIAN NAME	Mario Ayala	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

TECT	SDECIME	ΝΠΑΤΑ	VIELD ST	RENGTH ¹	ULTIMATE STRENGTH		Ft/Fy ELONGATION3		ATION ³	BEND TEST	
DATE	STRESSED	STRESSED	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ IN.		INCHES in.	%	PASS	FAIL
9/16/06	0 625	0.307	20,015	65,230	33,700	109,831	1.7	1.332	17	-	-
9/16/06	-	-	-	-	-	-	-	-	-	х	-
	9/16/06	DATE STRESSED DIMENSION ² 9/16/06 0 625	DATE STRESSED DIMENSION2 STRESSED AREA2 9/16/06 0 625 0.307	DATE STRESSED DIMENSION ² STRESSED ACTUAL LOAD LBS 9/16/06 0 625 0.307 20.015	DATE STRESSED DIMENSION ² STRESSED AREA ² ACTUAL LOAD LBS. POUNDS PER SQ. IN. 9/16/06 0 625 0.307 20.015 65,230	STRESSED STRESSED ACTUAL POUNDS ACTUAL LOAD LBS	STRESSED STRESSED ACTUAL POUNDS ACTUAL POUNDS PER SQ. IN. LOAD LBS PER SQ. IN.	STRESSED STRESSED ACTUAL POUNDS ACTUAL POUNDS PER SQ. IN.	STRESSED STRESSED ACTUAL POUNDS PER SQ. IN. LOAD LBS. PER SQ. IN. LOAD LBS. PER SQ. IN. POUNDS PER SQ. IN. POUNDS PER SQ. IN. PE	STRESSED STRESSED STRESSED ACTUAL POUNDS PER SQ. IN. LOAD LBS PER SQ. IN. LOAD LBS PER SQ. IN. POUNDS PER SQ. IN. PE	STRESSED STRESSED STRESSED LOAD LBS. PER SQ. IN. POUNDS PER SQ. IN. PER SQ.

Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

Nominal Dimension

Elongation in 8-inches

150-degree bend

TEST RESULTS:

Complies with ASTM A615

NR = Not Reported

AUTHORIZED SIGNATURE

The state of the s





REBAR TENSILE STRENGTH TEST DATA SHEET

ENTER	55)
	- 1
-	. :

DATE:	9/16/2006	MILL:	Kishiwada
INSPECTOR'S NAME:	Reliant Testing Engineers	HEAT NUMBER:	505338
JOB ADDRESS:	3615 Canyon Crest Drive	ASTM/GRADE:	A615 / 60
	Riverside Ca	REBAR SIZE (DIA.)	5
ACNITO ACTOR:		MARKINGS ON REBAR	JAPAN5S60
CONTRACTOR:	Facility Coast Steet, Inc.		
ENGINEER:	NR	TAG/SPECIMEN ID:	NR

TEST / EQUIPMENT INFORMATION (ASTM A615)

	160.	2001 112111 1111 21	
DATE SPECIMENS RECVD.	9/8/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	9/16/06	SN OF EQUIPMENT	74959
rechnician name	Mario Ayala	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

					IEST DATA							
SPECIMEN	TEST	SPECIME	ΝΠΑΤΑ	VIELD ST	YIELD STRENGTH ULTIMATE STRENGTH			Ft/Fy	ELONGATION'		BEND TEST⁴	
NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN		INCHES in.	PERCENT %	PASS	FAIL
R3003A	9/16/06	0.625	0.307	18,985	61,873	30,145	98,245	1.6	1.204	15	-	-
R3003B	9/16/06	-	-	-	-	-	-	-	-	-	×	-

Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

NR___

Nominal Dimension

trion-pation in 8-inches 195-degree bend

PERMIT NO.

TEST RESULTS:

Complies with ASTM A615

NR = Not Reported

AUTHORIZED SIGNATURE





10600 Pioneer Boulevard, Suite G • Santa Fe Springs, California 90670 • (562) 903-0032 • Fax (562) 903-3534

REBAR TENSILE STRENGTH TEST DATA SHEET

(ENTERED)

DATE:

9/16/2006______

MILL:

HEAT NUMBER:

ASTM/GRADE:

Tamco____

INSPECTOR'S NAME:

Reliant Testing Engineers

62729

INSPECTOR'S NAME

3615 Canyon Crest Drive

JOB ADDRESS:

A615 / 60

Riverside, Ca

REBAR SIZE (DIA.)

CONTRACTOR:

Pacific Coast Steel, Inc.

MARKINGS ON REBAR T16S

TAG/SPECIMEN ID: G

Green Tag

ENGINEER: PERMIT NO.

NR NR

TEST / EQUIPMENT INFORMATION (ASTM A615)

		1601	Edon MENT IN COME	
1	DATE SPECIMENS RECVD.	9/8/06	EQUIPMENT USED	Tinius Olsen
	REPORT DATE	9/16/06	SN OF EQUIPMENT	74959
	TECHNICIAN NAME	Mario Ayala	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

Constant	TEST	EDECIME	N DATA	VIELD ST	RENGTH'	ULTIMATE	STRENGTH	Ft/Fy		SATION ³	BEND	TEST4
SPECIMEN ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ IN.		INCHES in.	PERCENT %	PASS	FAIL
R3004A	9/16/06	0.625	0.307	21,635	70,510	32,475	105,838	1.5	1.049	13	-	-
R3004B	9/16/06	-	-	-	-	-	•	-	-	-	×	-
							t I					

Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

Nominal Dimension

Elongation in 8-inches

180-degree bend.
TEST RESULTS:

Complies with ASTM A615

NR = Not Reported

A MIRE



10600 Pioneer Boulevard, Suite G • Santa Fe Springs, California 90670 • (562) 903-0032 • Fax (562) 903-3534

(ENTERED)

REBAR TENSILE STRENGTH TEST DATA SHEET

DATE.	9/16/2006	MILL:	Sheffield
INSPECTOR'S NAME:	Reliant Testing Engineers	HEAT NUMBER:	0611359
JOB ADDRESS:	3615 Canyon Crest Drive	ASTM/GRADE:	A615 / 60
	Riverside, Ca	REBAR SIZE (DIA.)	6
CONTRACTOR:	Pacific Coast Steel, Inc.	MARKINGS ON REBAR	R S19S4
ENGINEER:	NR	TAG/SPECIMEN ID:	Green Tag
PERMIT NO.	NR		

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE SPECIMENS RECVD.	9/8/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	9/16/06	SN OF EQUIPMENT	74959
TECHNICIAN NAME	Mario Ayala	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

SPECIMEN	TEST	SPECIME	N DATA	YIELD STRENGTH'		ULTIMATE	STRENGTH	Ft/Fy			BEND TEST	
MODBER MODBER	DATE	STRESSED DIMENSION	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ IN.		INCHES in.	PERCENT %	PASS	FAIL
R3005A	9/16/06	0.750	0.442	33,525	75,875	49,040	110,989	1.5	1.136	14		-
R3005B	9/16/06	-	-	-	-	-	-	-	-	-	×	-
- · · ·												

Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

Normal Dimension

Elengation in 8-inches

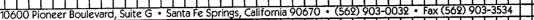
180-degree bend.

TEST RESULTS:

Complies with ASTM A615

NR = Not Reported

AUTHORIZED SIGNATURE





REBAR TENSILE STRENGTH TEST DATA SHEET

_	

.

DATE:

9/16/2006

MILL:

Border

INSPECTOR'S NAME:

Reliant Testing Engineers

HEAT NUMBER:

36271

JOB ADDRESS:

3615 Canyon Crest Drive

ASTM/GRADE:

A615 / 60

Riverside Ca

REBAR SIZE (DIA.)

CONTRACTOR.

Pacific Coast Steel, Inc

MARKINGS ON REBAR B19S

een Tag

ENGINEER:

NR_

TAG/SPECIMEN ID:

Green Tag

PERMIT NO.

NR _____

TEST / EQUIPMENT INFORMATION (ASTM A615)

		• ::		
[DATE SPECIMENS RECVD.	9/8/06	EQUIPMENT USED	Tinius Olsen
	REPORT DATE	9/16/06	SN OF EQUIPMENT	74959
	TECHNICIAN NAME	Mario Ayala	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

SPECIMEN	TEST	SPECIME	N DATA	VIELD ST	YIELD STRENGTH ¹ ULT		LTIMATE STRENGTH		FUFY ELONGATION ³		BEND	TEST⁴
ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in	PERCENT %	PASS	FAIL
R3006A	9/16/06	0.750	0.442	31,290	70,817	49,685	112,449	1.6	1.162	14	-	-
R3006B	9/16/06	-	•	-		-	-	-	-	-	х	-
		-										

Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

Nominal Dimension

Elongation in 8-inches.
180-degree bend

TEST RESULTS:

Complies with ASTM A615

NR = Not Reported

ALTHORIZED MONATURE

A MINI



10600 Pioneer Boulevard, Suite G • Santa Fe Springs, California 90670 • (562) 903-0032 • Fax (562) 903-3534

REBAR TENSILE STRENGTH TEST DATA SHEET

DATE:	9/16/2006	MILL:	Cascade	
INSPECTOR'S NAME:	Reliant Testing Engineers	HEAT NUMBER:	329606	
JOB ADDRESS:	3615 Canyon Crest Drive	ASTM/GRADE:	A615 / 60	
	Riverside. Ca	REBAR SIZE (DIA.)	9	· · · · · · · · · · · · · · · · · · ·
CONTRACTOR:	Pacific Coast Steel, Inc	MARKINGS ON REBAR	R C29S4	
ENGINEER:	NR	TAG/SPECIMEN ID:	Green Tag	
PERMIT NO.	NR			

TEST / EQUIPMENT INFORMATION (ASTM A615)

	11		
DATE SPECIMENS RECVD.	9/8/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	9/16/06	SN OF EQUIPMENT	74959
TECHNICIAN NAME	Mario Ayala	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

SPECIMEN	TEST	SPECIM	EN DATA	YIELD \$1	RENGTH ¹	ULTIMATE	STRENGTH	Ft/Fy		SATION ³	BEND	TEST4
ID NUMBER	DATE	STRESSED DIMENSION	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS	POUNDS PER SQ. IN		INCHES in.	PERCENT %	PASS	FAIL
R3007A	9/16/06	1 125	0.994	63,585	63,959	104,780	105,397	1.6	1.447	18	-	-
R3007B	9/16/06	-	-	-	-	-	-	-	-	-	×	-
										:		

³ Based on the half of the gauge of the test machine method - ASTM A615-9.2.1.

Normal Dimension

Elongation in 8-inches.

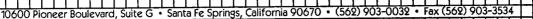
18L-degree bend

TEST RESULTS:

Complies with ASTM A615

NR = Not Reported







REBAR TENSILE STRENGTH TEST DATA SHEET

OMTERED
1
_ /

DATE:

9/16/2006

MILL:

Cascade

INSPECTOR'S NAME:

Reliant Testing Engineers

HEAT NUMBER:

329606

.....

3615 Canyon Crest Drive

ASTM/GRADE:

A615 / 60

JOB ADDRESS:

REBAR SIZE (DIA.)

Q

CONTRACTOR:

Pacific Coast Steel, Inc.

Riverside Ca

MARKINGS ON REBAR S29S4

2934

ENGINEER:

NR

TAG/SPECIMEN ID:

Green Tag

PERMIT NO.

NR

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE SPECIMENS RECVD.	9/8/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	9/16/06	SN OF EQUIPMENT	74959
TECHNICIAN NAME	Mario Ayala	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

SPECIMEN	TEST	SPECIME	N DATA	YIELD ST	RENGTH ¹	ULTIMATE	STRENGTH	Ft/Fy		ATION ³	BEND	TEST*
ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAIL
R3008A	9/16/06	1 125	0.994	70,460	70,875	102,590	103,194	1.5	1.367	17	•	•
R3008B	9/16/06	-	-	-	-	-	-	-	-	-	х	•
	· · · · · · · · · · · · · · · · · · ·										-	

Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

180-degree bend.

TEST RESULTS:

Complies with ASTM A615

NR = Not Reported

AUTHORIZED SIGNATURE

A INTEREST

Neminal Dimension

Elongation in 8-inches



, California 90670 • (562) 903-0032 10600 Pioneer Boulevard,

REBAR TENSILE STRENGTH TEST DATA SHEET

ENTERED	\
	/

DATE:

9/23/2006

MILL:

Cacade

INSPECTOR'S NAME:

Reliant Testing Engineers

HEAT NUMBER:

347506

JOB ADDRESS:

3615 Canyon Crest Drive

ASTM/GRADE:

A706 / A615 / 60

Riverside, Ca

REBAR SIZE (DIA.)

CONTRACTOR:

S.J. Amoroso

MARKINGS ON REBAR: C10WS4

ENGINEER:

Saiful / Bouquest

TAG/SPECIMEN ID:

NR

PERMIT NO.

NR

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE SPECIMENS RECVD.	9/15/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	9/23/06	SN OF EQUIPMENT	74959
TECHNICIAN NAME	Jesus Flores	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

SPECIMEN	TEST		EN DATA	YIELD ST	RENGTH ¹	ULTIMATE	STRENGTH	Ft/Fy	FLONG	SATION ³	BEND	TEST*
ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAIL
R3059A	9/23/06	0.375	0.110	7,460	67,535	10,810	97,863	1.4	1.100	14	-	-
R3059B	9/23/06	-	-	-	-	-	-	-	-	-	x	_
												
		<u> </u>		,								

Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

TEST RESULTS:

Complies with ASTM A615 / A706

NR = Not Reported

AUTHORIZED SIGNATURE

² Nominal Dimension

³ Elongation in 8-inches.

⁴ 180-degree bend.



10600 Pioneer Boulevard, Suite G • Santa Fe Springs, California 90670 • (562) 903-0032 • Fax (562) 903-3534



REBAR TENSILE STRENGTH TEST DATA SHEET

DATE:	9/23/2006	MILL:	Feng Hsin
INSPECTOR'S NAME:	Reliant Testing Engineers	HEAT NUMBER:	384542
JOB ADDRESS:	3615 Canyon Crest Drive	ASTM/GRADE:	A706 / A615 / 60
	Riverside, Ca	REBAR SIZE (DIA.)	4
CONTRACTOR:	S J Amoroso	MARKINGS ON REBAR	R FHTWN4WS60
ENGINEER:	Sarful / Bouquest	TAG/SPECIMEN ID:	NR
PERMIT NO.	NR		

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE SPECIMENS RECVD.	9/15/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	9/23/06	SN OF EQUIPMENT	74959
TECHNICIAN NAME	Jesus Flores	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

NT PASS	PERCENT! BAGE		Ft/Fy _	SINEMOTIT	ULTIMATE	RENGTH'	I YIFI D.ST	EN DATA	I SPECIMI	TEST	SPECIMEN
1	% FA33	INCHES in		POUNDS PER SQ IN.	ACTUAL LOAD LBS	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	STRESSED AREA ²	STRESSED DIMENSION ²	DATE	ID NUMBER
	15 -	1.197	1.5	99,911	19,620	67,167	13,190	0.196	0.500	9/23/06	R3060A
х		<u>-</u>	_	-	-	-	-	-	-	9/23/06	R3060B
				-							
- 		-	-	-	-	-	-	-	-		

Bases on the half of the gauge of the test machine method - ASTM A615-9.2.1.

TEST RESULTS:

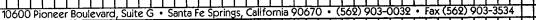
Complies with ASTM A615 / A706

NR = Not Reported

Nominal Dimension

Florigation in 8-inches.

[&]quot; 180-degree bend







REBAR TENSILE STRENGTH TEST DATA SHEET

DATE	9/23/2006	MILL:	Sheffield
INSPECTOR'S NAME:	Reliant Testing Engineers	HEAT NUMBER:	0610415
JOB ADDRESS:	3615 Canyon Crest Drive	ASTM/GRADE:	A706 / 60

JONTRACTOR: S J Amoroso

Riverside, Ca

ENGINEER: Saiful / Bouquest

PERMIT NO. NR REBAR SIZE (DIA.) MARKINGS ON REBAR S13W4

NR

TAG/SPECIMEN ID:

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE SPECIMENS RECVO.	9/15/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	9/23/06	SN OF EQUIPMENT	74959
TECHNICIAN NAME	Jesus Flores	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

PECIMEN TEST		SPECIMEN DATA		YIELD STRENGTH1		ULTIMATE STRENGTH				BEND TEST	
DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN		INCHES in.	PERCENT %	PASS	FAIL
9/23/06	0.500	0.196	12,330	62,788	17,740	90,337	1.4	1.533	19		-
9/23/06	-	-	-	-	-	-	-	-	-	х	-
	9/23/06	DATE STRESSED DIMENSION: 9/23/06 0.500	DATE STRESSED DIMENSION: AREA2 9/23/06 0.500 0.196	DATE STRESSED DIMENSION: STRESSED ACTUAL LOAD LBS. 9/23/06 0.500 0.196 12,330	DATE STRESSED DIMENSION: STRESSED AREA? ACTUAL LOAD LBS. POUNDS PER SQ IN. 9/23/06 0.500 0.196 12,330 62,788	DATE STRESSED DIMENSION STRESSED AREA? ACTUAL LOAD LBS. POUNDS PER SQ IN. ACTUAL LOAD LBS. 9/23/06 0.500 0.196 12,330 62,788 17,740	DATE STRESSED DIMENSION: STRESSED AREA? ACTUAL LOAD LBS. POUNDS PER SQ IN. ACTUAL LOAD LBS. POUNDS PER SQ IN. 9/23/06 0.500 0.196 12,330 62,788 17,740 90,337	DATE STRESSED STRESSED ACTUAL POUNDS ACTUAL POUNDS PER SQ IN LOAD LBS PER SQ IN	DATE STRESSED DIMENSION: STRESSED AREA? ACTUAL LOAD LBS. POUNDS PER SQ. IN. ACTUAL LOAD LBS. POUNDS PER SQ. IN. INCHES IN. 9/23/06 0.500 0.196 12,330 62,788 17,740 90,337 1.4 1.533	DATE STRESSED STRESSED ACTUAL POUNDS ACTUAL POUNDS PER SQ IN LOAD LBS PER SQ IN POUNDS INCHES PERCENT PER SQ IN PER SQ I	DATE STRESSED DIMENSION: STRESSED AREA? ACTUAL LOAD LBS. POUNDS PER SQ. IN. ACTUAL LOAD LBS. POUNDS PER SQ. IN. INCHES In. PERCENT % PASS 9/23/06 0.500 0.196 12,330 62,788 17,740 90,337 1.4 1.533 19 -

Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

Nominal Cimension

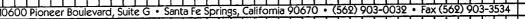
Elorigation in 8-inches

180-degree bend TEST RESULTS:

Complies with ASTM A706

NR = Not Reported

AUTHORIZED SIGNATURE





REBAR TENSILE STRENGTH TEST DATA SHEET

DATE:	9/23/2006	MILL:	Tamco
INSPECTOR'S NAME:	Reliant Testing Engineers	HEAT NUMBER:	61339
JOB ADDRESS:	3615 Canyon Crest Drive	ASTM/GRADE:	A706 / 60
	Riverside Ca	REBAR SIZE (DIA.)	5
CONTRACTOR:	S J Amoroso	MARKINGS ON REBAR	T16W
ENGINEER:	Saiful / Bouguest	TAG/SPECIMEN ID:	NR
PERMIT NO.	NR		

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE SPECIMENS RECVD.	9/15/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	9/23/06	SN OF EQUIPMENT	74959
TECHNICIAN NAME	Jesus Flores	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

San Charles	TEST	SPECIM	EN DATA	YIELD ST	RENGTH ¹	ULTIMATE	TIMATE STRENGTH Ft/Fy				BEND TEST	
nd Nodaliji, R	DATE	STRESSED DIMENSION	STRESSED AREA'	ACTUAL LOAD LBS	POUNDS PER SQ. IN.	ACTUAL LOAD LBS	POUNDS PER SQ. IN		INCHES in.	PERCENT	PASS	FAIL
R3062A	9/23/06	0 625	0.307	19,535	63,666	31,260	101,879	1.6	1.385	17	-	-
R3062B	9/23/06	-	-	-	-	-	-	-		-	×	-
-,												

Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

cikarqation in 8-inches

150 alegiée betü TEST RESULTS:

Complies with ASTM A706

NR = Not Reported



10600 Pioneer Boulevard, Suite G • Santa Fe Springs, California 90670 • (562) 903-0032 • Fax (562) 903-3534

REBAR TENSILE STRENGTH TEST DATA SHEET

EW Person

JA	

9/23/2006

MILL:

Cascade

INSPECTOR'S NAME:

Reliant Testing Engineers

HEAT NUMBER:

536005

JOB ADDRESS.

3615 Canyon Crest Drive

ASTM/GRADE:

A706 / 60

Riverside, Ca

REBAR SIZE (DIA.)

6

CONTRACTOR

S J Amoroso

Saiful / Bouquest

MARKINGS ON REBAR C19W4
TAG/SPECIMEN ID: NR

NR _____

ENGINEER: PERMIT NO.

NID

TEST / EQUIPMENT INFORMATION (ASTM A615)

	<u></u>		
DATE SPECIMENS RECVD.	9/15/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	9/23/06	SN OF EQUIPMENT	74959
TECHNICIAN NAME	Jesus Flores	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

SPECIMEN.	TEST	SPECIME	N DATA	YIELD ST	RENGTH1	ULTIMATE	ULTIMATE STRENGTH			ATION3	BEND TEST	
NU NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN		INCHES in.	PERCENT %	PASS	FAIL
R0063A	9/23/06	0.750	0.442	27,005	61,119	40,465	91,582	1.5	1.325	17	-	-
R3063B	9/23/06	-	-	-	-	<u>.</u>	-	-	-	-	×	-
					l		;					
	. , , , ,		71.00									

Based on the half of the gauge of the test machine method - ASTM A615-9.2.1.

lacontal European

It longation in 8-inches 1150-degree bend

TEST RESULTS:

Complies with ASTM A706

NR = Not Reported

AUTHORIZED SIGNATURE

A ENTERED





REBAR TENSILE STRENGTH TEST DATA SHEET

DATE:	9/23/2006	MILL:	Border
INSPECTOR'S NAME:	Reliant Testing Engineers	HEAT NUMBER:	BS00027059
JOB ADDRESS:	3615 Canyon Crest Drive	ASTM/GRADE:	A615 / 60
	Riverside. Ca	REBAR SIZE (DIA.)	8
CONTRACTOR:	S J Amoroso	MARKINGS ON REBAI	R B25S
ENGINEER:	Saiful / Bouquest	TAG/SPECIMEN ID:	NR
PERMIT NO.	NR		

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE SPECIMENS RECVD.	9/15/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	9/23/06	SN OF EQUIPMENT	74959
TECHNICIAN NAME	Jesus Flores	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

	TEOT	CDECIMI	EN DATA	VIELD ST	RENGTH1	ULTIMATE STRENGTH		Ft/Fy			BEND	TEST.
SEECIMEN ID NUMBER	TEST DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN		INCHES in.	PERCENT %	PASS	FAIL
R3064A	9/23/06	1.000	0.786	51,285	65,290	81,055	103,189	1.6	1.767	22	-	-
R3064B	9/23/06	-	-	-	-	-	-		-	-	х	-
										}		

Based on the hait of the gauge of the test machine method - ASTM A615-9.2.1.

Nominal Dimension

Elongation in 8-inches. 1 180-degree bend.

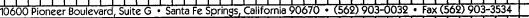
TEST RESULTS:

Complies with ASTM A615

NR = Not Reported

AUTHORIZED SIGNATURE

O INTIMIT





REBAR TENSILE STRENGTH TEST DATA SHEET

DATE.	9/23/2006	MILL:	Border
INSPECTOR'S NAME:	Reliant Testing Engineers	HEAT NUMBER:	BS30036872
JOB ADDRESS:	3615 Canyon Crest Drive	ASTM/GRADE:	A706 / 60
	Riverside: Ca	REBAR SIZE (DIA.)	7
CONTRACTOR:	S J Amoroso	MARKINGS ON REBAR	R B22W
ENGINEER:	Saiful / Bouquest	TAG/SPECIMEN ID:	NR
PERMIT NO.	NR		

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE SPECIMENS RECVD.	9/15/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	9/23/06	SN OF EQUIPMENT	74959
TECHNICIAN NAME	Jesus Flores	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

	TEUT DATA											
SPECIMEN	TEST	SPECIMI	EN DATA	YIELD ST	TRENGTH ¹	ULTIMATE	STRENGTH	Ft/Fy	ELONG	SATION ³	BEND	TEST4
Φź	DATE	STRESSED	STRESSED	ACTUAL	POUNDS	ACTUAL	POUNDS		INCHES	PERCENT	PASS	FAIL
. AnyBER		DIMENSION	AREA ²	LOAD LBS.	PER SQ. IN.	LOAD LBS.	PER SQ IN.	 	in.	%		
R3065A	9/23/06	0 875	0.601	37,910	63,036	55,290	91,936	1.5	1.628	20	-	-
								<u> </u>		-		ļ -
R3065B	9/23/06	-	-	-	-	-	-	-	-	-	Х	-
		ļ						ļ				
					,							
							1	1				ĺ

Based on the half of the gauge of the test machine method - ASTM A615-9.2.1.

Nominal Dimension

Elongation in 8-inches

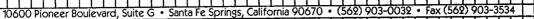
180-degree bend

TEST RESULTS:

Complies with ASTM A706

NR = Not Reported

AUTHORIZED SIGNATURE







REBAR TENSILE STRENGTH TEST DATA SHEET

DATE:	9/23/2006	MILL:	Border
INSPECTOR'S NAME.	Reliant Testing Engineers	HEAT NUMBER:	BS20023372
JOB ADDRESS:	3615 Canyon Crest Drive	ASTM/GRADE:	A706 / 60
	Riverside Ca	REBAR SIZE (DIA.)	8
CONTRACTOR -	S J Amoroso	MARKINGS ON REBAR	B25W
ENGINEER:	Saiful / Bouquest	TAG/SPECIMEN ID:	NR
PERMIT NO.	NR		

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE SPECIMENS RECVD.	9/15/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	9/23/06	SN OF EQUIPMENT	74959
TECHNICIAN NAME	Jesus Flores	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

SPECIMEN	TEST	SPECIME	EN DATA	YIELD ST	RENGTH1	ULTIMATE	STRENGTH	Ft/Fy		SATION ³	BEND	TEST ⁴
ាក ស ក្រៅស្តី R	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS	POUNDS PER SQ IN		INCHES in_	PERCENT %	PASS	FAIL
R3066A	9/23/06	1.000	0.786	47,970	61,069	67,505	85,939	1.4	1.766	22		_
R3066B	9/23/06	-	-	-	-	-	-	-	-	-	×	-

Based on the hait of the gauge of the test machine method - ASTM A615-9.2.1.

Norwhal Dimension Eloogation in 8-inches. 180-degree bend

FEST RESULTS:

Complies with ASTM A706

NR = Not Reported





10600 Pioneer Boulevard, Suite G • Santa Fe Springs, California 90670 • (562) 903-0032 • Fax (562) 903-3534

REBAR TENSILE STRENGTH TEST DATA SHEET

			-
DATE:	10/6/2006	MILL:	Feng Hsin
INSPECTOR'S NAME:	Reliant Testing Engineers	HEAT NUMBER:	384542
JOB ADDRESS:	3615 Canyon Crest Drive	ASTM/GRADE:	A706 / 60 / A615 / 60
	Riverside, CA	REBAR SIZE (DIA.)	4
CONTRACTOR:	S.J. Amoroso	MARKINGS ON REBAR	R FHTWN4WS60
ENGINEER:	Saiful / Bouquet	TAG/SPECIMEN ID:	Blue Tag
PERMIT NO.	NR		

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE ORDERED / DATE SPECIMENS RECVD.	9/27/06 / 9/29/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	10/6/06	SN OF EQUIPMENT	74959
TECHNICIAN NAME	M. Ayala	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

SPECIMEN	TEAT				TEOLDAIA							
ID ID	TEST	STRESSED	EN DATA STRESSED	YIELD ST ACTUAL	RENGTH1		STRENGTH	Ft/Fy	ELONO	SATION ³	BEND	TEST
NUMBER		DIMENSION ²	AREA ²	LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAI
R3123A	10/5/06	0.500	0.196	12,905	65,716	20,555	104,672	1.6	1.145	14	-	-
R3123B	10/6/06	-	-	•	-	-	-	-	-	-	х	_
												
	L-11 - 5 11											

Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

4 180-degree bend.

TEST RESULTS:

Complies with ASTM A706 / A615

NR = Not Reported

AUTHORIZED SIGNATURE

A

² Nominal Dimension

³ Elongation in 8-inches.



10600 Pioneer Boulevard

REBAR TENSILE STRENGTH TEST DATA SHEET

EN	rered
\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ار ۱۰ تا تا تا تا تا تا تا تا تا تا تا تا تا

10/6/2006

MILL:

Japan

INSPECTOR'S NAME:

Reliant Testing Engineers

HEAT NUMBER:

505338

JOB ADDRESS:

3615 Canyon Crest Drive

ASTM/GRADE:

A615 / 60

Riverside, CA

REBAR SIZE (DIA.)

CONTRACTOR:

S.J. Amoroso

MARKINGS ON REBAR Japan-5S60

ENGINEER:

Saiful / Bouquet

TAG/SPECIMEN ID:

Blue Tag

PERMIT NO.

NR

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE ORDERED / DATE SPECIMENS RECVD.	9/27/06 / 9/29/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	10/6/06	SN OF EQUIPMENT	74959
TECHNICIAN NAME	M. Ayala	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

					IESI DAIA							
SPECIMEN	TEST		N DATA	YIELD ST	RENGTH ¹	ULTIMATE	STRENGTH	Ft/Fy	ELONG	ATION ³	BEND	TEST
ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAIL
R3124A	10/5/06	0.625	0.307	18,990	61,890	30,605	99,744	1.6	1.299	16	-	-
R3124B	10/6/06	-	-	-	-	-	_	-	-	-	×	-
:												

¹ Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

TEST RESULTS:

Complies with ASTM A615

² Nominal Dimension

³ Elongation in 8-inches. ⁴ 180-degree bend.



REBAR TENSILE STRENGTH TEST DATA SHEET

DATE:

10/6/2006

MILL:

Tamco

INSPECTOR'S NAME:

Reliant Testing Engineers

HEAT NUMBER:

54019

JOB ADDRESS:

3615 Canyon Crest Drive

ASTM/GRADE:

A706 / 60

Riverside, CA

REBAR SIZE (DIA.)

CONTRACTOR:

S.J. Amoroso

MARKINGS ON REBAR T16W

ENGINEER:

Saiful / Bouquet

TAG/SPECIMEN ID:

Blue Tag

PERMIT NO.

NR

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE ORDERED / DATE SPECIMENS RECVD.	9/27/06 / 9/29/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	10/6/06	SN OF EQUIPMENT	74959
TECHNICIAN NAME	M. Ayala	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

ODEODIEM I	7507				IESI DATA							
SPECIMEN I	TEST		N DATA	YIELD ST	RENGTH ¹	ULTIMATE	STRENGTH	Ft/Fv	FLONG	SATION ³	DEND	TEST
NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAIL
R3125A	10/5/06	0.625	0.307	19,765	64,416	32,055	104,470	1.6	1.150	14	_	-
R3125B	10/6/06	-	-	-	-	•	-	-	-	-	x	-
												
				_								

¹ Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

TEST RESULTS:

Complies with ASTM A706

² Nominal Dimension

³ Elongation in 8-inches.

^{4 180-}degree bend.



10600 Pioneer Boulevard, Suite G · Santa Fe Springs, California 90670 ·

REBAR TENSILE STRENGTH TEST DATA SHEET

DATE:	10/6/2006	MILL:	Tamco	No. of Street,
				· -
INSPECTOR'S NAME:	Reliant Testing Engineers	HEAT NUMBER:	62807	
JOB ADDRESS:	3615 Canyon Crest Drive	ASTM/GRADE:	A706 / 60	
	Riverside, CA	REBAR SIZE (DIA.)	7	
CONTRACTOR:	S.J. Amoroso	MARKINGS ON REBAI	₹ T22W	
ENGINEER:	Saiful / Bouquet	TAG/SPECIMEN ID:	Blue Tag	
PERMIT NO.	NR			
				•

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE ORDERED / DATE SPECIMENS RECVD.	9/27/06 / 9/29/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	10/6/06	SN OF EQUIPMENT	74959
TECHNICIAN NAME	M. Ayala	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

SPECIMEN	TEST	SPECIM	EN DATA	YIELD ST	RENGTH ¹	ULTIMATE	STRENGTH	Ft/Fy	ELONO	ATION ³	BEND	TEST ⁴
ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAIL
R3126A	10/5/06	0.875	0.601	39,940	66,412	59,430	98,820	1.5	1.463	18	-	-
R3126B	10/6/06	-	-	-	-	-	-	-	-	-	x	-
·												-

¹ Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

TEST RESULTS:

Complies with ASTM A706



Nominal Dimension
 Elongation in 8-inches.
 180-degree bend.



REBAR TENSILE STRENGTH TEST DATA SHEET

ENTETIEN	\
	Ï

DATE:

10/6/2006

MILL:

Tamco

INSPECTOR'S NAME:

Reliant Testing Engineers

HEAT NUMBER:

62403

JOB ADDRESS:

3615 Canyon Crest Drive

ASTM/GRADE:

A615 / 60

REBAR SIZE (DIA.)

10

CONTRACTOR:

S.J. Amoroso

MARKINGS ON REBAR T32S

ENGINEER:

Saiful / Bouquet

Riverside, CA

TAG/SPECIMEN ID:

NR

PERMIT NO.

NR

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE ORDERED / DATE SPECIMENS RECVD.	10/3/06 / 10/4/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	10/6/06	SN OF EQUIPMENT	74959
TECHNICIAN NAME	M. Ayala	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

					ILUIDAIA							
SPECIMEN	TEST		EN DATA	YIELD ST	TRENGTH ¹	ULTIMATE	STRENGTH	Ft/Fy	ELONG	SATION ³	BEND	TEST ⁴
ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAIL
R3141A	10/6/06	1.250	1.227	85,645	69,781	136,390	111,126	1.6	1.121	14	-	-
R3141B	10/6/06	-	-	-	-	_	-	-	-	-	x	-
	- · · · · · · · · · · · · · · · · · · ·							-	<u></u>			
	_											

¹ Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

TEST RESULTS:

Complies with ASTM A615

NR = Not Reported

AUTHORIZED SIZNATURE

A MINI

² Nominal Dimension

³ Elongation in 8-inches. ⁴ 180-degree bend.



10600 Pioneer Boulevard, Suite G • Santa Fe Springs, California 90670 • (562) 903-0032 • Fax (562) 903-3534

REBAR TENSILE STRENGTH TEST DATA SHEET

ENT	
-	أرسسا

n	Α.	TE	•

10/6/2006

MILL:

Cascade

INSPECTOR'S NAME:

Reliant Testing Engineers

HEAT NUMBER:

411706

JOB ADDRESS:

3615 Canyon Crest Drive

ASTM/GRADE:

A615 / 60

REBAR SIZE (DIA.)

TAG/SPECIMEN ID:

CONTRACTOR:

S.J. Amoroso

Saiful / Bouquet

Riverside, CA

MARKINGS ON REBAR C29S4

NR

ENGINEER: PERMIT NO.

NR

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE ORDERED / DATE SPECIMENS RECVD.	10/3/06 / 10/4/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	10/6/06	SN OF EQUIPMENT	74959
TECHNICIAN NAME	M. Ayala	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

					I LOI DAIA							
SPECIMEN	TEST	SPECIMI	EN DATA	YIELD STRENGTH		ULTIMATE STRENGTH		Ft/Fy	ELONGATION ³		BEND TES	
ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAIL
R3142A	10/6/06	1.125	0.994	64,580	64,960	109,145	109,787	1.7	1.234	15	-	-
R3142B	10/6/06	-	-	-	-	-	-		-	-	х	-
											·	

¹ Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

Complies with ASTM A615

NR = Not Reported

AUTHORIZED SIGNATURE

² Nominal Dimension

³ Elongation in 8-inches.

⁴ 180-degree bend.
TEST RESULTS:



0600 Pioneer Boulevard, Suite G • Santa Fe Springs, California 90670 • (562) 903-0032 • Fax (562) 903-3534

REBAR TENSILE STRENGTH TEST DATA SHEET

			- Comment	
DATE:	10/6/2006	MILL:	Cascade	
NSPECTOR'S NAME:	Reliant Testing Engineers	HEAT NUMBER:	531005	
JOB ADDRESS:	3615 Canyon Crest Drive	ASTM/GRADE:	A706 / 60 / A615 / 60	
	Riverside, CA	REBAR SIZE (DIA.)	8	
CONTRACTOR:	S.J. Amoroso	MARKINGS ON REBA	AR C25WS4	

TAG/SPECIMEN ID:

NR

TEST / EQUIPMENT INFORMATION (ASTM A615)

		Lacon INCIAL IN OKNIN	TION (ASTIM ASTS)
DATE ORDERED / DATE SPECIMENS RECVD.	10/3/06 / 10/4/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	10/6/06	SN OF EQUIPMENT	74959
TECHNICIAN NAME	M. Ayala	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

					LOIPAIA									
SPECIMEN	TEST		SPECIMEN DATA		YIELD STRENGTH ¹		ULTIMATE STRENGTH		Ft/Fy ELONGATION ³		ELONGATION ³		BEND TES	
ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAIL		
R3143A	10/6/06	1.000	0.786	54,490	69,370	77,380	98,511	1.4	1.563	20	-	-		
R3143B	10/6/06	-	•	-	-	-	-	-	-	-	x	-		
	•													

¹ Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

Saiful / Bouquet

NR

ENGINEER:

PERMIT NO.

TEST RESULTS: Complies with ASTM A706 / A615

NR = Not Reported

AUTHORIZED SIGNATURE

² Nominal Dimension

³ Elongation in 8-inches.

^{4 180-}degree bend.



10600 Pioneer Boulevard, Suite G • Santa Fe Springs, California 90670 • (562) 903-0032 • Fax (562) 903-3534

REBAR TENSILE STRENGTH TEST DATA SHEET

DATE:	10/6/2006		MILL:	Sheffield
INSPECTOR'S NAME:	Reliant Testing Engineers		HEAT NUMBER:	0629198
JOB ADDRESS:	3615 Canyon Crest Drive		ASTM/GRADE:	A615 / 60
	Riverside, CA		REBAR SIZE (DIA.)	9
CONTRACTOR:	S.J. Amoroso		MARKINGS ON REBA	R S29S4
ENGINEER:	Saiful / Bouquet		TAG/SPECIMEN ID:	NR
PERMIT NO.	NR			
	T	EST / EQUIPMENT INFO	RMATION (ASTM A615)	
DATE ORDERED / DATE SPECIMENS RECVD.	10/3/06 / 10/4/06	EQUIPMENT USED	Tinius Olsen	
DEDOOT DATE	10/6/06	SN OF FOURNEST	74050	

TEST DATA

CALIB. / RECAL. DATE

2-06 / 2-07

SPECIMEN	TEST	SPECIME	EN DATA	YIELD STRENGTH ULTIMATE STRENGTH		STRENGTH	Ft/Fy	ELONG	ATION ³	BEND	TEST	
ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAI
R3144A	10/6/06	1.125	0.994	79,225	79,691	104,460	105,075	1.3	1.461	18	-	-
R3144B	10/6/06	-	-	-	-			-	-	-	x	-

¹ Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

M. Ayala

TECHNICIAN NAME

TEST RESULTS:

Complies with ASTM A615

NR = Not Reported

AUTHORIZED SIGNATURE

A EVIENCE

² Nominal Dimension

³ Elongation in 8-inches.

⁴ 180-degree bend.



10600 Pioneer Boulevard, Suite G • Santa Fe Springs, California 90670 • (562) 903-0032 • Fax (562) 903-3534

REBAR TENSILE STRENGTH TEST DATA SHEET

					The second secon
DATE:	10/6/2006		MILL:	Border	
INSPECTOR'S NAME:	Reliant Testing Engineers		HEAT NUMBER:	26575	
JOB ADDRESS:	3615 Canyon Crest Drive		ASTM/GRADE:	A706 / 60	
	Riverside, CA		REBAR SIZE (DIA.)	8	
CONTRACTOR:	S.J. Amoroso		MARKINGS ON REBAF	R B25W	
ENGINEER:	Saiful / Bouquet		TAG/SPECIMEN ID:	NR	
PERMIT NO.	NR				
		ST / EQUIPMENT INFORM	ATION (ASTM A615)		
DATE ORDERED / DATE SPECIMENS RECVD.	10/3/06 / 10/4/06	EQUIPMENT USED	Tinius Olsen		
REPORT DATE	10/6/06	SN OF EQUIPMENT	74959		
TECHNICIAN NAME	M. Ayala	CALIB. / RECAL. DATE	2-06 / 2-07		

TEST DATA

				IESTUAIA							
TEST	SPECIMEN DATA		YIELD STRENGTH ¹		ULTIMATE STRENGTH		Ft/Fy	ELONGATION ³		BEND TEST	
DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAIL
10/6/06	1.000	0.786	56,815	72,330	80,845	102,922	1.4	1.401	17	-	-
10/6/06	-	-	•	-	-	-	-	-	-	x	-
	10/6/06	DATE STRESSED DIMENSION ² 10/6/06 1.000	DATE STRESSED DIMENSION2 STRESSED AREA2 10/6/06 1.000 0.786	DATE STRESSED DIMENSION2 STRESSED ACTUAL LOAD LBS. 10/6/06 1.000 0.786 56,815	TEST	TEST	DATE STRESSED DIMENSION ² STRESSED AREA ² ACTUAL LOAD LBS. POUNDS PER SQ. IN. ACTUAL LOAD LBS. POUNDS PER SQ. IN. 10/6/06 1.000 0.786 56,815 72,330 80,845 102,922	TEST	TEST	TEST	TEST SPECIMEN DATA YIELD STRENGTH ULTIMATE STRENGTH FVFY ELONGATION BEND

¹ Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

TEST RESULTS:

Complies with ASTM A706

NR = Not Reported



² Nominal Dimension

³ Elongation in 8-inches.

⁴ 180-degree bend.



REBAR TENSILE STRENGTH TEST DATA SHEET

					The state of the s
DATE:	10/6/2006	· 	MILL:	Border	
INSPECTOR'S NAME:	Reliant Testing Engineers		HEAT NUMBER:	26552	
JOB ADDRESS:	3615 Canyon Crest Drive		ASTM/GRADE:	A615 / 60	
	Riverside, CA		REBAR SIZE (DIA.)	8	
CONTRACTOR:	S.J. Amoroso		MARKINGS ON REBAR	R B25S	
ENGINEER:	Saiful / Bouquet		TAG/SPECIMEN ID:	NR	
PERMIT NO.	NR				
	TEST	/ EQUIPMENT INFORMA	ATION (ASTM A615)		
DATE ORDERED / DATE SPECIMENS RECVD.	10/3/06 / 10/4/06	EQUIPMENT USED	Tinius Olsen		
REPORT DATE	10/6/06	SN OF EQUIPMENT	74959	-	·

TEST DATA

2-06 / 2-07

CALIB. / RECAL. DATE

					IESI DAIA							
SPECIMEN	TEST	SPECIMI	N DATA	YIELD STRENGTH ¹		ULTIMATE STRENGTH		Ft/Fy	ELONGATION ³		BEND TEST	
ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAIL
R3146A	10/6/06	1.000	0.786	49,150	62,572	78,180	99,529	1.6	1.250	16		_
R3146B	10/6/06	-	-	-	_	•	-	-	-	-	х	•

¹ Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

M. Ayala

TECHNICIAN NAME

TEST RESULTS:

Complies with ASTM A615

Nominal Dimension
 Elongation in 8-inches.

⁴ 180-degree bend.



10600 Pioneer Boulevard, Suite G · Santa Fe Springs, California 90670 · (562) 903-0032 · Fax (562) 903-3534

REBAR TENSILE STRENGTH TEST DATA SHEET

DATE:	10/6/2006		MILL:	Sheffield	
INSPECTOR'S NAME:	Reliant Testing Engineers	<u> </u>	HEAT NUMBER:	0519878	
JOB ADDRESS:	3615 Canyon Crest Drive		ASTM/GRADE:	A706 / 60	
	Riverside, CA		REBAR SIZE (DIA.)	7	
CONTRACTOR:	S.J. Amoroso		MARKINGS ON REBAR	R S22W4	
ENGINEER:	Saiful / Bouquet		TAG/SPECIMEN ID:	NR	
PERMIT NO.	NR				
	TES"	/ EQUIPMENT INFORMA	ATION (ASTM A615)		
DATE ORDERED / DATE SPECIMENS RECVD.	10/3/06 / 10/4/06	EQUIPMENT USED	Tinius Olsen		
REPORT DATE	10/6/06	SN OF EQUIPMENT	74959		
TECHNICIAN NAME	M. Ayala	CALIB. / RECAL. DATE	2-06 / 2-07		

TEST DATA

	_			IESI DAIA							
TEST			YIELD STRENGTH1		ULTIMATE STRENGTH		Ft/Fy	ELONG	ATION ³	BEND	TEST
DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAIL
10/6/06	0.875	0.601	41,280	68,640	58,220	96,808	1.4	1.471	18	-	-
10/6/06	-	-	-	-	-	-		-	-	×	-
	10/6/06	DATE STRESSED DIMENSION ² 10/6/06 0.875	DATE STRESSED DIMENSION2 STRESSED AREA2 10/6/06 0.875 0.601	DATE STRESSED DIMENSION2 STRESSED ACTUAL LOAD LBS. 10/6/06 0.875 0.601 41,280	TEST	TEST	TEST	TEST	TEST	TEST	DATE STRESSED DIMENSION ² STRESSED AREA ² ACTUAL LOAD LBS. POUNDS PER SQ. IN. ACTUAL LOAD LBS. POUNDS PER SQ. IN. INCHES PERCENT In. PASS 10/6/06 0.875 0.601 41,280 68,640 58,220 96,808 1.4 1.471 18 - 10/6/06 -

¹ Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

TEST RESULTS:

Complies with ASTM A706

NR = Not Reported



² Nominal Dimension

³ Elongation in 8-inches.

⁴ 180-degree bend.



10600 Pioneer Boulevard, Suite G • Santa Fe Springs, California 90670 • (562) 903-0032 • Fax (562) 903-3534

REBAR TENSILE STRENGTH TEST DATA SHEET

DATE:	10/9/2006		MILL:	Feng Hsin	
INSPECTOR'S NAME:	Reliant Testing Engineers		HEAT NUMBER:	384542	
JOB ADDRESS:	3615 Canyon Crest Drive		ASTM/GRADE:	A615 / 60	
	Riverside, CA		REBAR SIZE (DIA.)	4	
CONTRACTOR:	S.J. Amoroso		MARKINGS ON REBAR FHTWN4S60		
ENGINEER:	Saiful / Bouquet		TAG/SPECIMEN ID:	NR	
PERMIT NO.	NR				
	TEST	/ EQUIPMENT INFORMA	TION (ASTM A615)		
DATE ORDERED / DATE SPECIMENS RECVD.	10/3/06 / 10/4/06	EQUIPMENT USED	Tinius Olsen		
REPORT DATE	10/9/06	SN OF EQUIPMENT	74959		
TECHNICIAN NAME	M Avala	CALIB / RECAL DATE	2-06 / 2-07		

TEST DATA

					IESI DAIA								
SPECIMEN	TEST	SPECIMEN DATA		YIELD ST	YIELD STRENGTH		ULTIMATE STRENGTH		ELONG	NGATION ³ E		BEND TEST ⁴	
ID NUMBER	DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAIL	
R3148A	10/9/06	0.500	0.196	12,235	62,304	20,255	103,144	1.7	1.156	14	-	-	
R3148B	10/9/06	-	-	-	-	-	-	-	-	-	x	-	
				-							_		
													

¹ Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

TEST RESULTS:

Complies with ASTM A615

NR = Not Reported



² Nominal Dimension

³ Elongation in 8-inches.

⁴ 180-degree bend.



10600 Pioneer Boulevard, Suite G • Santa Fe Springs, California 90670 • (562) 903-0032 • Fax (562) 903-3534

REBAR TENSILE STRENGTH TEST DATA SHEET

~		1
/EM	9	53/
1		1
N.		

DATE:

10/9/2006

MILL:

Tamco

INSPECTOR'S NAME:

Reliant Testing Engineers

HEAT NUMBER:

63172

JOB ADDRESS:

3615 Canyon Crest Drive

ASTM/GRADE:

A706 / 60

Riverside, CA

REBAR SIZE (DIA.)

4

CONTRACTOR:

S.J. Amoroso

Saiful / Bouquet

MARKINGS ON REBAR T13W
TAG/SPECIMEN ID: NR

NR

ENGINEER: PERMIT NO.

NR

TEST / EQUIPMENT INFORMATION (ASTM A615)

DATE ORDERED / DATE SPECIMENS RECVD.	10/3/06 / 10/4/06	EQUIPMENT USED	Tinius Olsen
REPORT DATE	10/9/06	SN OF EQUIPMENT	74959
TECHNICIAN NAME	M. Ayala	CALIB. / RECAL. DATE	2-06 / 2-07

TEST DATA

				ILUI DAIA								
			YIELD ST	YIELD STRENGTH		ULTIMATE STRENGTH		ELON	LONGATION ³		BEND TEST	
DATE	STRESSED DIMENSION ²	STRESSED AREA ²	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.	ACTUAL LOAD LBS.	POUNDS PER SQ. IN.		INCHES in.	PERCENT %	PASS	FAIL	
10/9/06	0.500	0.196	12,570	64,010	18,885	96,168	1.5	1.410	18	-	-	
10/9/06	-	-	-	-	-	-	-	-	-	x	-	
		DATE STRESSED DIMENSION ² 10/9/06 0.500	DATE STRESSED DIMENSION2 STRESSED AREA2 10/9/06 0.500 0.196	DATE STRESSED DIMENSION2 STRESSED ACTUAL LOAD LBS. 10/9/06 0.500 0.196 12,570	TEST	TEST	TEST	TEST	TEST	TEST	TEST	

¹ Based on the halt of the gauge of the test machine method - ASTM A615-9.2.1.

Complies with ASTM A706

NR = Not Reported

² Nominal Dimension

Elongation in 8-inches.
 180-degree bend.

TEST RESULTS:



					JOR NO	05.1/25
PROJECT NAME:		UCR- Chass Bui	lding		JOB NO:	05-1425
PROJECT ADDRE	ESS:	3615 Canyon C	rest Drive, Riverside, C	A 92507	LAB NO:	4608
CLIENT NAME: CLIENT ADDRES	S:	S.J. Amoroso Co 275 East Baker S Costa Mesa, CA				
SPECIMEN TYPE	:	Concrete	-			
LOCATION IN S	TRUCTURE:		Deck pour; Grid line I	5-12.5	-	
MIX NO:	CHJ05372	_ MEA	SURED SLUMP (in):	5	SPEC'D PSI:	5000
AIR CONTENT:	N/A	-	AMBIENT TEMP:	72	CONCRETE TEMP:	80
SUPPLIER:	Robertson's	·	DIAMETER (in):	6	AREA (sq. in.):	28.28
DATE CAST:	9/6/2006	TIME CAST	4:38 A.M.	CAST BY:	G.Branstetter	CO.: RTE
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE
1	7	9/13/2006	131,760	4,659	D	
2	28	10/4/2006	153,290	5,420	В	
3	28	10/4/2006	151,560	5,359	В	
4	Hold					
	<u> </u>					5 300
		<u> </u>	<u></u>	 		5,390
*	Compression	n test results w	B), CONE & SHEAR (Cyere satisfactory and			
			'2, C1231 & C1064.		EDET TO	
	Compressio	on test results w	vere not satisfactory		NJAY GOL	
	REMARKS:		 		o. CO51523	
			Ann		P. 6-30-08	
		Dr. Sanjay Go	vil P.E. License Num	ber 51523	CIVIL	



PROJECT NAME:		UCR- Chass Buil	ding		JOB NO:	05-1425
PROJECT ADDRE	SS:	3615 Canyon Cr	est Drive, Riverside, C	A 92507	LAB NO:	4609
CLIENT NAME: CLIENT ADDRES!	S:	S.J. Amoroso Co 275 East Baker S Costa Mesa, CA				
SPECIMEN TYPE:		Concrete				
LOCATION IN ST	TRUCTURE:		Deck pour; Grid line I	NX.5-18.7		
MIX NO:	CHJ05372	MEA	SURED SLUMP (in):	4 1/2	SPEC'D PSI:	5000
AIR CONTENT:	N/A	_	AMBIENT TEMP:	78	CONCRETE TEMP:	82
SUPPLIER:	Robertson's		DIAMETER (in):	6	AREA (sq. in.):	28.28
DATE CAST:	9/6/2000	6 TIME CAST	7:45 A.M.	CAST BY:	G.Branstetter	CO.: RTE
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE
1	7	9/13/2006	123,760	4,376	В	
2	28	10/4/2006	167,140	5,910	В	
3	28	10/4/2006	160,260	5,667	С	
4	Hold					
	-					5,789
*	Compression ASTM C31	on test results w , C39, C143, C17	B), CONE & SHEAR (vere satisfactory and 72, C1231 & C1064. Were not satisfactory	conform to the	specifications of	
		Dr. Sanjay Go	vil, F.E. License Nur		No. CO51523 EXP. 6-30-08	



PROJECT NAME:		UCR- Chass Buil	ding		JOB NO:	05-1425			
PROJECT ADDRE	SS:	3615 Canyon Cr	est Drive, Riverside, C	A 92507	LAB NO:	4610			
CLIENT NAME: CLIENT ADDRESS: S.J. Amoroso Construction Co., 275 East Baker Street, Suite B Costa Mesa, CA 92626-4504			treet, Suite B						
SPECIMEN TYPE:	:	Concrete							
LOCATION IN ST	TRUCTURE:		Deck pour; Grid line LX.3-22.9						
MIX NO:	CHJ05372	MEA	SURED SLUMP (in):	4 1/2	SPEC'D PSI:	5000			
AIR CONTENT:	N/A	_	AMBIENT TEMP:	82	CONCRETE TEMP:	82			
SUPPLIER:	Robertson's		DIAMETER (in):	6	AREA (sq. in.):	28.28			
DATE CAST:	9/6/2006	TIME CAST	10:00 A.M.	CAST BY:	G.Branstetter	CO.: <u>RTE</u>			
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE			
1	7	9/13/2006	123,440	4,365	D				
2	28	10/4/2006	158,740	5,613	С				
3	28	10/4/2006	151,350	5,352	D				
4	Hold								
						5,482			
*	Compression ASTM C31,	n test results w C39, C143, C17 in test results w), CONE & SHEAR (ere satisfactory and 2, C1231 & C1064. ere not satisfactory	conform to the					



PROJECT NAME:		UCR- Chass Bui	lding		JOB NO:	05-1425
PROJECT ADDRE	ESS:	3615 Canyon Cr	est Drive, Riverside, C	A 92507	LAB NO:	4611
CLIENT NAME: CLIENT ADDRES	S:	S.J. Amoroso Co 275 East Baker S Costa Mesa, CA				
SPECIMEN TYPE	•	Concrete	-			
LOCATION IN S	TRUCTURE:		Deck pour; Grid line	M-16.5		
MIX NO:	CHJ05372	_ MEA	SURED SLUMP (in):	5	SPEC'D PSI:	5000
AIR CONTENT:	N/A	_	AMBIENT TEMP:	68	CONCRETE TEMP:	80
SUPPLIER:	Robertson's		DIAMETER (in):	6	AREA (sq. in.):	28.28
DATE CAST:	9/6/2006	TIME CAST	5:55 A.M.	CAST BY:	G.Branstetter	CO.: RTE
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE
1	7	9/13/2006	118,750	4,199	C	
2	28	10/4/2006	148,410	5,248	C	
3	28	10/4/2006	143,780	5,084	C	
4	Hold					
						5,166
*	Compression ASTM C31,	n test results w C39, C143, C17	3), CONE & SHEAR ((ere satisfactory and 2, C1231 & C1064.	conform to the		
	Compression REMARKS:		ere not satisfactory		ROTE SOLUTION OF THE ROTE OF T	
		Dr. Sanjay Gov	vil, P.E. License ₩um	iber 51523	COM SE	



:	UCR- Chass Bui	lding		JOB NO:	05-1425
ESS:	3615 Canyon Cı	rest Drive, Riverside, C	A 92507	LAB NO:	4636
SS:	275 East Baker S	Street, Suite B			
:	Concrete	-			
TRUCTURE:		Shear wall; top lift; gr	id line G - 3		
44243	MEA	SURED SLUMP (in):	4.5	SPEC'D PSI:	5000
N/A		AMBIENT TEMP:	62	CONCRETE TEMP:	68
Robertsons	·	_DIAMETER (in):	6	AREA (sq. in.):	28.28
9/11/2006	TIME CAST	8:06am	CAST BY:	G. Lewis	CO.: RTE
SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE
7	9/18/2006	118,470	4,189	D	
28					
28					
Hold					
					5,688
Compression ASTM C31,	n test results w C39, C143, C17 n test results w	vere satisfactory and 12, C1231 & C1064. Vere not satisfactory	conform to the		
	N/A Robertsons 9/11/2006 SAMPLE AGE 7 28 28 Hold CONE (A), C Compression ASTM C31, Compression	SJ. Amoroso Co SJ. Amoroso Co SS: 275 East Baker S Costa Mesa, CA Concrete TRUCTURE: 44243 MEA N/A Robertsons 9/11/2006 TIME CAST SAMPLE AGE 7 9/18/2006 28 10/9/2006 28 10/9/2006 Hold CONE (A), CONE & SPLIT (I) Compression test results was ASTM C31, C39, C143, C17 Compression test results was REMARKS:	S.J. Amoroso Construction Co., Inc. S.J. Amoroso Construction Co., Inc. 275 East Baker Street, Suite B Costa Mesa, CA 92626-4504 E. Concrete TRUCTURE: Shear wall; top lift; gr. 44243 MEASURED SLUMP (in): N/A AMBIENT TEMP: Robertsons DIAMETER (in): 9/11/2006 TIME CAST 8:06am SAMPLE AGE TEST DATE MAXIMUM LOAD (lbf) 7 9/18/2006 118,470 28 10/9/2006 156,740 28 10/9/2006 156,740 28 10/9/2006 164,980 Hold CONE (A), CONE & SPLIT (B), CONE & SHEAR (COmpression test results were satisfactory and ASTM C31, C39, C143, C172, C1231 & C1064. Compression test results were not satisfactory REMARKS:	SJ. Amoroso Construction Co., Inc SS: 275 East Baker Street, Suite B Costa Mesa, CA 92626-4504 E: Concrete TRUCTURE: Shear wall; top lift; grid line G - 3 44243 MEASURED SLUMP (in): 4.5 N/A AMBIENT TEMP: 62 Robertsons DIAMETER (in): 6 9/11/2006 TIME CAST 8:06am CAST BY: SAMPLE AGE TEST DATE MAXIMUM LOAD (Ibf) STRENGTH (psi) 7 9/18/2006 118,470 4,189 28 10/9/2006 156,740 5,542 28 10/9/2006 164,980 5,834 Hold CONE (A), CONE & SPLIT (B), CONE & SHEAR (C), SHEAR (D), CC Compression test results were satisfactory and conform to the ASTM C31, C39, C143, C172, C1231 & C1064. Compression test results were not satisfactory	SS: 3615 Canyon Crest Drive, Riverside, CA 92507 LAB NO: SJ. Amoroso Construction Co., Inc 275 East Baker Street, Suite B Costa Mesa, CA 92626-4504 :: Concrete TRUCTURE: Shear wall; top lift; grid line G - 3 44243 MEASURED SLUMP (in): 4.5 SPEC'D PSI: N/A AMBIENT TEMP: 62 CONCRETE TEMP: Robertsons DIAMETER (in): 6 AREA (sq. in.): 9/11/2006 TIME CAST 8:06am CAST BY: G. Lewis SAMPLE AGE TEST DATE MAXIMUM LOAD COMPRESSIVE STRENGTH (psi) 7 9/18/2006 118,470 4,189 D 28 10/9/2006 156,740 5,542 D 28 10/9/2006 164,980 5,834 B Hold Hold Hold CONCRETE TEST DATE HOLD STRENGTH (CONCRETE TEMP) CONE (A), CONE & SPLIT (B), CONE & SHEAR (C), SHEAR (D), COLUMNAR (E) Compression test results were satisfactory and conform to the specifications of ASTM C31, C39, C143, C172, C1231 & C1064. Compression test results were not satisfactory REMARKS:



PROJECT NAME:		UCR- Chass Bui	lding		JOB NO:	05-1425
PROJECT ADDRE	ESS:	3615 Canyon Cı	est Drive, Riverside, C	A 92507	LAB NO:	4687
CLIENT NAME: CLIENT ADDRES	S:	S.J. Amoroso Co 275 East Baker S Costa Mesa, CA				
SPECIMEN TYPE	:	Concrete	-			
LOCATION IN S	TRUCTURE:		Level # 3; south bldg	; grids D.2 / 3.5		
MIX NO:	CHJ05372_	_ MEA	SURED SLUMP (in):	4.5	SPEC'D PSI:	5000
AIR CONTENT:	N/A	_	AMBIENT TEMP:	62	CONCRETE TEMP:	78
SUPPLIER:	Robertsons		DIAMETER (in):	6	AREA (sq. in.):	28.28
DATE CAST:	9/15/2006	TIME CAST	5:18am	CAST BY:	G. Branstetter	CO.: RTE
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE
1	7	9/22/2006	129,170	4,568	В	
2	28	10/13/2006	164,400	5,813	В	
3	28	10/13/2006	160,280	5,668	В	
4	Hold					
						5,740
*	Compression ASTM C31,	on test results w C39, C143, C17 on test results w	i), CONE & SHEAR (ere satisfactory and 2, C1231 & C1064. ere not satisfactory	conform to the		



PROJECT NAME:		UCR- Chass Bui	lding		JOB NO:	05-1425
PROJECT ADDRE	ESS:	3615 Canyon Ci	rest Drive, Riverside, C	A 92507	LAB NO:	4688
CLIENT NAME: CLIENT ADDRES	S:	S.J. Amoroso Co 275 East Baker S Costa Mesa, CA				
SPECIMEN TYPE	:	Concrete	_			
LOCATION IN S	TRUCTURE:		Level # 3; south bldg	; grids B / 2.6		
MIX NO:	CHJ05372	_ MEA	SURED SLUMP (in):	4.5	SPEC'D PSI:	5000
AIR CONTENT:	N/A		AMBIENT TEMP:	60	CONCRETE TEMP:	78
SUPPLIER:	Robertsons		_DIAMETER (in):	6	AREA (sq. in.):	28.28
DATE CAST:	9/15/2006	TIME CAST	7:10am	CAST BY:	G. Branstetter	CO.: RTE
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE
1	7	9/22/2006	121,340	4,291	С	
2	28	10/13/2006	157,080	5,554	В	
3	28	10/13/2006	154,870	5,476	В	
4	Hold					
						5,515
* 2	Compression ASTM C31,	on test results w C39, C143, C17 on test results w	B), CONE & SHEAR (vere satisfactory and 22, C1231 & C1064. vere not satisfactory will, P.E. License Nun	conform to the		



PROJECT NAME:	UCR- Chass Buildi	ng	JOB NO:	05-1425	
PROJECT ADDRESS:	3615 Canyon Cres	t Drive, Riverside, C	LAB NO:	4713	
CLIENT NAME: CLIENT ADDRESS:	S.J. Amoroso Cons 275 East Baker Str Costa Mesa, CA 92	eet, Suite B			
SPECIMEN TYPE:	Mortar				
LOCATION IN STRUCTURE	:	South bldg.; 1st cou	urse;Level 1; Grid li	ne K-4.1	
MIX NO: Orco	MEASU	JRED SLUMP (in):	N/A	SPEC'D PSI:	1800
SUPPLIER: Orco		DIAMETER (in):	2	AREA (sq. in.):	3.14
DATE CAST: 9/19/2006	TIME CAST	11:15 A.M.	CAST BY:	G.Lewis	CO.: RTE
SAMPLE SAMPLE NUMBER AGE	TEST DATE	MAXIMUM LOAD (Ibf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE
1 7	9/26/2006	4,700	1,497	D	
2 28	10/17/2006	6,620	2,108	D	
3 28	10/17/2006	6,630	2,111	D	
					2,110
Compressio ASTM C109	n test results wer , C144, & C1142. n test results wer	re satisfactory and re not satisfactory	conform to the		



PROJECT NAM	E:	UCR- Chass Buildi	ng	JOB NO:	05-1425	
PROJECT ADDI	RESS:	3615 Canyon Cres	t Drive, Riverside, C	LAB NO:	4737	
CLIENT NAME: CLIENT ADDRE		S.J. Amoroso Cons 275 East Baker Str Costa Mesa, CA 92	eet, Suite B			
SPECIMEN TYP	E:	Mortar				
LOCATION IN	STRUCTURE		1st level; 8th cours	e; grid line J.5 - 4		
MIX NO:	Type S	MEASU	JRED SLUMP (in):	N/A	SPEC'D PSI:	1800
SUPPLIER:	Orco		DIAMETER (in):	2	AREA (sq. in.):	3.14
DATE CAST:	9/20/2006	TIME CAST	1:30pm	CAST BY:	G. Lewis	CO.: RTE
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE
1	7	9/27/2006	5,090	1,621	D	
2	28	10/18/2006	6,720	2,140		
3	28	10/18/2006	6,870	2,188	D	
					1	
						2,164
	Compression ASTM C109	on test results we), C144, & C1142.	re not satisfactory	I conform to the	specifications of	





PROJECT NAN	IE:	UCR- Chass Build	CR- Chass Building			05-1425
PROJECT ADD	RESS:	3615 Canyon Cre	st Drive, Riverside, C	LAB NO:	4822	
CLIENT NAME CLIENT ADDR		S.J. Amoroso Con 275 East Baker St Costa Mesa, CA 9				
SPECIMEN TY	PE:	Mortar	-			
LOCATION IN	STRUCTURE	:	Level 2; 1st course;	Grid line 9.5-A		
MIX NO:	Type S	MEAS	URED SLUMP (in):	N/A	SPEC'D PSI:	1800
SUPPLIER:	Orco		_DIAMETER (in):	2	AREA (sq. in.):	3.14
DATE CAST:	9/26/2006	TIME CAST	10:00 A.M.	CAST BY:	G.Lewis	CO.: RTE
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (Ibf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE
1	7	10/3/2006	5,230	1,666	D	
2	28	10/24/2006		0		
3	28	10/24/2006		0		0
* 	Compressio ASTM C109	n test results we , C144, & C1142, n test results we), CONE & SHEAR (re satisfactory and re not satisfactory	l conform to the		-





PROJECT NAM	NE:	UCR- Chass Building					JOB NO:	05-1425	
PROJECT ADD	RESS:	3615 Canyon Cres	LAB NO:	4820					
CLIENT NAME: CLIENT ADDR		S.J. Amoroso Con 275 East Baker Str Costa Mesa, CA 9	reet, Suite B	Inc					
SPECIMEN TYI	PE:	Grout	.						
LOCATION IN	STRUCTURE		Level 1; Grid	line H-4					
MIX NO:	CHJ05404	-	MI	EASUREI	O SLUMP (in):	10	SPEC'D PSI:	2500	
SUPPLIER:	Rancho Read	y mix	_						
DATE CAST:	9/27/2006	TIME CAST:	7:15 A.M.		CAST BY:	G.Lewis	COMPANY	RTE	
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	DIAMETER (in)	AREA (sq.in.)	MAXIMUM LOAD (Ibf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE	
1	7	10/4/2006	3	9.59	28,610	2,983	N/A		56
2	28	10/25/2006	3	1		0			
3	28	10/25/2006	3	1		0			ļ
4	28	10/25/2006	3	1		0			
								0	
*	Compression	CONE & SPLIT (B on test results we 0,C579,C942,C10	re satisfacto	ry and c	onform to the		of		
	Compression	on test results we	ere not satisfa	actory					
	REMARKS:								
			B.234						



ROJECT NAME:		UCR- Chass Bui	lding		JOB NO:		
ROJECT ADDRE	ESS:	3615 Canyon Cr	est Drive, Riverside, C	A 92507	LAB NO:	4826	
CLIENT NAME: CLIENT ADDRES	S:	S.J. Amoroso Co 275 East Baker S Costa Mesa, CA					
PECIMEN TYPE	:	Concrete	-				
OCATION IN S	TRUCTURE:		Column; Level 2-3; G	rid line PX-19			
MIX NO:	44243	MEA	SURED SLUMP (in):	4 1/2	SPEC'D PSI:	5000	
AIR CONTENT:	N/A	-	AMBIENT TEMP:	80	CONCRETE TEMP:	80	
SUPPLIER:	Robertson's		DIAMETER (in):	6	AREA (sq. in.):	28.28	
DATE CAST:	9/28/2006	TIME CAST	8:45 A.M.	CAST BY:	G.Lewis	CO.: <u>RTE</u>	
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE	
1	7	10/5/2006	127,020	4,492	D		
2	28	10/26/2006		0			
3	28	10/26/2006		0			
4	Hold						
			<u> </u>			0	
*			B), CONE & SHEAR (vere satisfactory and				
	•		2, C1231 & C1064.	comonn to the	opecinioner, o		
	·		vere not satisfactory				
	REMARKS:						
			·		-		
		Dr. Saniay Go	vil, P.E. License Nun	nber 51523			



PROJECT NAN	NE:	UCR- Chass Build	ing	JOB NO:	05-1425		
PROJECT ADD	RESS:	3615 Canyon Cres	st Drive, Riverside, C	A 92507	LAB NO:	4898	
CLIENT NAME CLIENT ADDR		S.J. Amoroso Con 275 East Baker Sti Costa Mesa, CA 9	reet, Suite B				
SPECIMEN TY	PE:	Mortar	-				
LOCATION IN	STRUCTURE	<u>.</u>	Level 2; 2nd course	; Grid line 8.5-B.8			
MIX NO:	Type S	MEASI	URED SLUMP (in):	N/A	SPEC'D PSI:	1800	
SUPPLIER:	Orco		_DIAMETER (in):	22	AREA (sq. in.):	3.14	
DATE CAST:	10/4/2006	TIME CAST	10:00 A.M.	CAST BY:	G.Lewis	CO.: RTE	
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (Ibf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE	
1	7	10/11/2006	5,950	1,895	D		5G_
2	28	11/1/2006		0			
3	28	11/1/2006		0			
						0	
*), CONE & SHEAR (
	•	on test results we 9, C144, & C1142.	re satisfactory and	l conform to the	specifications of		
	Compression	on test results we	re not satisfactory	,			
	REMARKS:					-	
		Dr. Saniav Govi	I. P.E. License Nur	mber 51523	-		







COMPRESSION TEST RESULTS

ROJECT NAM	E:	UCR- Chass Build	ing				JOB NO:	05-1425	-
ROJECT ADD	RESS:	3615 Canyon Cres	st Drive, River	side, CA	92507		LAB NO:	4900	_
CLIENT NAME: CLIENT ADDRI		S.J. Amoroso Cone 275 East Baker Str Costa Mesa, CA 9	eet, Suite B	Inc					
SPECIMEN TYP	E:	Grout	-						
OCATION IN	STRUCTURE	: <u> </u>	Level 2; Sout	h Buildir	ng; Grid line 11-	A.9			_
MIX NO:	CHJ05404	_	MI	EASURE	O SLUMP (in):	10	SPEC'D PSI:	2500) -
SUPPLIER:	Rancho Read	ly Mix	-						
DATE CAST:	10/5/2006	TIME CAST:	12:15 A.M.	-	CAST BY:	G.Lewis	COMPANY	RTE	_
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	DIAMETER (in)	AREA (sq.in.)	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE	
1	7	10/12/2006	3	9.65	24,230	2,511	N/A] > G
2	28	11/2/2006	3	1		0			
3	28	11/2/2006	3	1		0			
4	28	11/2/2006	3	1		0			-
								0	1
* £%	Compression ASTM C109	CONE & SPLIT (B on test results we 9,C579,C942,C10 ² on test results we	re satisfacto 19,UBC21-16	ry and c JUBC 21	onform to the		of	_	
		Dr. Sanjay Govi	l, P.E. Licens	se Numb	per 51523				





COMPRESSION TEST RESULTS

PROJECT NAME:		UCR- Chass Buil	lding		JOB NO:	05-1425	5
PROJECT ADDRE	SS:	3615 Canyon Cr	est Drive, Riverside, C	A 92507	LAB NO:	4948	3_
CLIENT NAME: CLIENT ADDRESS	5:	S.J. Amoroso Co 275 East Baker S Costa Mesa, CA					
SPECIMEN TYPE:		Concrete	-				
LOCATION IN ST	TRUCTURE:		Shear wall; Top lift; L	evel # 3; Grid line I	D-2.6		_
MIX NO:	44243	MEA	SURED SLUMP (in):	4	SPEC'D PSI:	5000	<u>0</u>
AIR CONTENT:	N/A	_	AMBIENT TEMP:	62	CONCRETE TEMP:	62	<u>2</u>
SUPPLIER:	Robertson's		_DIAMETER (in):	66	AREA (sq. in.):	28.28	_
DATE CAST:	10/10/2006	TIME CAST	8:45 A.M.	CAST BY:	G.Lewis	CO.: RTE	:
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE	
1	7	10/17/2006	147,680	5,222	В		<u></u> 59
2	28	11/7/2006		0			
3	28	11/7/2006		0			_
4	Hold						_
						<u></u>	
							0
*	Compression ASTM C31,	on test results w C39, C143, C17	B), CONE & SHEAR (vere satisfactory and 72, C1231 & C1064. vere not satisfactory	l conform to the		·	
ш	Compression	off cese results v	vere moe sammaeer,				
	REMARKS:					<u>-</u>	
		Dr. Saniay Go	vil, P.E. License Nur	nber 51523	_		



750777

11/1/06 – Jobsite walk to address M-E Engineers concerns

Attendees:

Larry Grubbs, Office of Design & Construction Bill Martin, Martin Mechanical Lance Blount, Martin Mechanical Randy Joiner, SJ Amoroso

Summary:

On October 19, 2006, Mark van Dalm (M-E Engineers) conducted a jobsite visit to review the mechanical work in progress. He submitted a Project Observation Report to Edmund Buch (Leo A. Daly Architects) on October 24, 2006. Martin Mechanical (a second-tier subcontractor to Eberhard SMC) disputed several of items noted in the report and requested a jobsite meeting with Larry Grubbs, the Inspector of Record to address those items. The meeting took place on 11/1/06. Each item noted in the Project Observation Report was physically observed and discussed by all attendees. Comments in these meeting notes will directly correspond with those items.

North Building:

<u>Item #1</u> – Martin Mechanical stated that they used Schedule 10 sleeves in lieu of Schedule 40 sleeves in order to make the concrete pour. Schedule 40 was not available at the time. They have agreed to fill and caulk around the piping as necessary. Additionally, they assume all responsibility for any leaking that occurs in this area.

<u>Item #2</u> – Generally speaking, uncovered mechanical piping is not a concern to Larry, because the system has to be flushed. He is more concerned with ductwork and requires that it be covered when not in work.

Item #3 - Eberhard SMC has billed at 12.5% through the September 2006 billing period.

South Building:

<u>Item #1</u> – Same as Item #2, North Building. Martin Mechanical stated that they would comply with M-E Engineers comments regarding wiping down fittings prior to installation.

<u>Item #2</u> – Larry stated that this is biggest concern and that he will observe this on a daily basis to ensure that open duct ends are covered. Any discrepancies will be brought to Martin Mechanical attention. Martin Mechanical has agreed to stay on top of this issue and will provide and extra set of filters if necessary.

Item #3 – Same as Item #1, South Building and Item #2 North Building.

<u>Item #4</u> – Area is question (photo #7) is not steam piping. It is chilled water piping. Steam piping is presently in work in another area of the basement, and a steam trap will be installed as per 10/M-405.

<u>Item #5</u> – There are spacers in the areas where the control valves are missing. The valves are supplied by Yardley Company and installed by Martin Mechanical. Martin Mechanical has not taken possession of these valves.

Additionally, Martin Mechanical has not taken possession of the chilled water metering station from Yardley; however, the area in question has been spooled based off of dimensions provided in product cut sheets from Yardley.

Configuration of the supply and return lines was reviewed and approved by Larry.

Please also note that, while pipe shop drawings have not been submitted, ductwork shop drawings reflect dimensions with consideration to *all* trades. These dimensions are the result of multiple onsite/offsite MEP coordination meetings.

<u>Item #6</u> – The lines noted in photo #8 are not steam and/or steam condensate lines. They are steam vent, hot water supply, and hot water return.

<u>Item #7</u> – Seismic bracing is installed horizontally. Vertical and lateral support is in work, but not yet complete. Martin Mechanical reviewed support locations with Larry. Larry took no exceptions.

<u>Item #8</u> – The valves in photo #10 are clearly staggered. Larry will review access concerns with UCR maintenance personnel. He feels that neck extensions are not required.

Item #9 – Same as Item #3, North Building.

Additional Comments: As per the 10/25/06 Owner's Meeting, it was agreed that any consultant should contact Larry prior to conducting future onsite visits. Lance with Martin Mechanical also requested to accompany M-E Engineers on any future visits.

PROJECT OBSERVATION REPORT Date: October 24, 2006

To: Ed Buch, LAD

Reported By: Mark van Dalm

Project: UCR CHASS, LA03031.00

Date of Visit to Project: October 19, 2006 Division: 15

> ITEM COMMENT

North Building

Chilled water and heating hot water piping is stubbing through the wall at the basement level of the North Building near grid lines L and 15. The openings for these pipe penetrations do not include metal sleeves with water stop collars as shown on contract drawing M-405, detail 3. See photo 1 below. Note also that sleeves are required at all penetrations through structure per spec. section 15050, paragraph 3.5-A.



Photo 1

Pipe work in progress is observed to be left with uncovered open ends while no work is being performed in those areas. See photo 2 below. Note that all open pipe ends, either hung or unhung, shall be covered at the end of work day to prevent dust migration per spec. section 15010, paragraph 3.4-E.

FAX: (310) 842-7700

Ed Buch, LAD Project Observation Report UCR CHASS, LA03031.00 October 24, 2006 Page 2 of 10

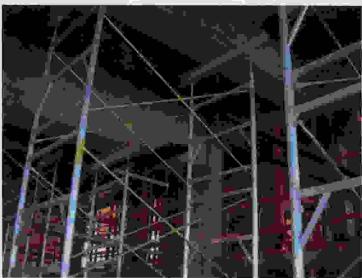


Photo 2

Level of completion of MEP work in the North Building is 3. estimated to be approximately 10% at this time.

www.me-engineers.com

Ed Buch, LAD Project Observation Report UCR CHASS, LA03031.00 October 24, 2006 Page 3 of 10

South Building

Pipe fittings are observed to be left unprotected from dust. See photo 3 below. Such fittings should be wiped down prior to installation. All pipe materials shall be covered at end of work day to prevent dust accumulation.



Photo 3

Generally speaking, most open duct ends and loose fittings are being well protected from dust migration as specified. However, some duct fittings are observed to still be left unprotected from dust. See photos 4 and 5 below. All such fittings should be wiped down prior to being hung.

LOS ANGELES

Ed Buch, LAD Project Observation Report UCR CHASS, LA03031.00 October 24, 2006 Page 4 of 10

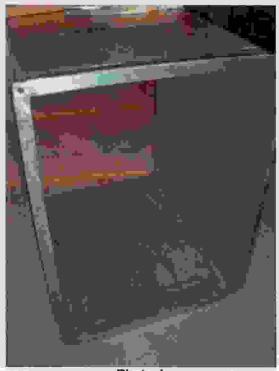


Photo 4

Ed Buch, LAD Project Observation Report UCR CHASS, LA03031.00 October 24, 2006 Page 5 of 10



Photo 5

Pipe work in progress is observed to be left with uncovered open ends while no work is being performed in those areas. See photo 6 below. Note that all open pipe ends, either hung or unhung, shall be covered at the end of work day to prevent dust migration.

NEW YORK

Ed Buch, LAD Project Observation Report UCR CHASS, LA03031.00 October 24, 2006 Page 6 of 10



Photo 6

High pressure steam piping entering the building from underground at basement level has not yet been fitted with a steam trap and drip leg per detail 10 on contract drawing M-405. See photo 7 below. Reference also detail 3 on contract drawing M-100 and detail 1 on contract drawing M-501.



Photo 7

Ed Buch, LAD Project Observation Report UCR CHASS, LA03031.00 October 24, 2006 Page 7 of 10

- Valves shown in photo 7 above appear to be configured 5. incorrectly as summarized here:
 - The check valve must be in the bypass line, not the supply or return lines.
 - Butterfly valves are installed instead of the specified flange-to-flange connectors.
 - Modulating valves CHV-3 and CHV-4 (by Controls Contractor) are missing.
 - The chilled water metering station (by Controls Contractor) is missing.

Reference contract drawing M-501 for required valve configuration. It is the contractor's responsibility to coordinate with the work of all Trades, including the controls sub, before proceeding. It should be noted that this pipe work has been installed without E.O.R.'s piping shop drawing approval (shop drawings have not yet been submitted).

Steam and steam condensate lines in the basement appear to be installed level. See photo 8 below. General Note 19 on contract drawing M-002 requires all such piping to be "pitched downward in direction of flow not less than 1 inch per 40 feet."



Photo 8

NEW YORK

Ed Buch, LAD Project Observation Report UCR CHASS, LA03031.00 October 24, 2006 Page 8 of 10

> Seismic bracing has not yet been installed on trapeze supported mechanical piping at level 1. See photos 9 and 10 below.



Photo 9

LOS ANGELES

Ed Buch, LAD Project Observation Report UCR CHASS, LA03031.00 October 24, 2006 Page 9 of 10



Photo 10

Butterfly valves in the chilled and heating hot water lines at level 1 have been installed in a side-by-side fashion making access to the two middle valves difficult. See photo 11 below. MEE's recommendation is that these two middle valves be fitted with neck extensions that put the handles at a higher elevation that the outer two valves making them easier to access.

Ed Buch, LAD Project Observation Report UCR CHASS, LA03031.00 October 24, 2006 Page 10 of 10



Photo 11

Level of completion of MEP work in the South Building is estimated to be approximately 10% at this time.

R:\project\la03031\POR\por102006-mav.doc

www.me-engineers.com

NEW YORK



958377 REPORT

Date:

October 5, 2006

Report distribution package of Field Inspection Reports and/or Laboratory results on materials tested.

Ŭ.C. Riverside

DET 1 1 2006

Job Name:

UCR CHASS Building

Job Address:

3615 Canyon Crest Drive

City:

Riverside, CA

Client Name:

SJ Amoroso Construction

You are receiving these reports at the request of our client. If you are not the correct recipient or wish to discontinue to receipt, please contact Denise DeGroff at 714/556-5867.



3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

INSPECTOR CODE	JOB NUMBE	F 05-1425	роси	DATE	Sontom	ber 5, 2006	M	W	T	FS	8	
JOB NAME University of Cali	omia of Riverside C	.H.A.S.S.		BUILD F		R / DSA / OSHPD APP	FILE#	<u>- </u>		tiverside		
ADDRESS 3615 Canyon Cre	st Dr.	CITY Riverside		GENER	AL CONTRACT	OR S.J. Amoroso				- IVCISIGO		
ARCHITECT Leo Daily	ENGINEER	Saiful/Bouquet	 	SUBCONTRACTOR (If Any) Pacific Coast Steel								
REQUIREMENTS: Limit of identified. Communication (building and permit granting	one job number one pern RFI Sketch, etc.) voiding _l	nit number per shee	et. Identify a liant items r	all work b nust be l	y type and SP isted. Record	ECIFIC location. Nor conversations and co	-compli mmunic	ant work ations w	must t	e speci ct desiç	ifically gners,	
				URS								
REGULAR	1.5X			2X		TIME IN			TIME O			
8	1					7:00 AM			4:30 F	M		
		Show-Up	Only			Expe	nses					
Reinforcement Concre	te 🗍 (Concrete Placemen	t		Masonry	/	inforcen	nent Ma	sonry			
Quality Control	Administration		Prestress	/Post Te	nsion	x Other		v	VELDIN	<u> </u>		
			INSPE	CTIO	N							
STARTED @:	1st TRUCK BAT	CHED:		MET	HOD OF PLA	CEMENT:						
OBSERVATION OF	WELDING 4" & 6" HOT	WATER & CHILI	WATER	PIPE @	CEILING LE	EVEL 1 SOUTH BU	DING (GRID L	INE 1.8	3 / A-D		
AND GRID LINE 2.6	/ D-F. WELDING SING	LE BEVEL GROO	VE WELD	O, CHEC	KED ROOT	PASS & COVER P	ASS AC	CEPT	ABLE.			
	V. MANUAL 1/8 6010, V											
WELDER - JOSE CA	STILLO, UNITED ASS	OCIATION WELD	ER QUAL	IFICAT	ON, EXP. 12	2-06						
WELDER - JOSE SA	LAZAR, UNITED ASSO	CIATION WELD	ER QUALI	FICATION	ON, EXP. 12	-06.						
	REINFORCEMENT PLA						COMPL	ETED	PLACI	NG		
	D AUDITORIUM AREA											
	MNS CN8 - @ GRID LI											
	. IN PROCESS OF LA											
	ONCRETE POUR IS @											
77 <u>25. 3151 (141745, 5</u>	MONETET OUT TO US	T.OOT M, VILLE	OLIZOITI		COLINGE TO S	<u> 01.12 001101.121</u>				************		
	· · · · · · · · · · · · · · · · · · ·									•	$\neg \neg$	
			SAM	PLES							لســــــ	
SUPPLIER:			O7 (1V)									
MIXED NO TICKI	T# DESIGN SLUMP	MEASURED SLUMP	ADMIX	TURE	DESIGN PS	SI CUBIC YARDS	SPE	CIMENS		MPERAT		
		SLOWP	 						1-7"	10 001	"	
							+		+-	 	\dashv	
		-					+		+		\dashv	
			1	REP	Co	ntains			_L		l	
Additional Page (Page	F) CM			KEP	X Do	es Not Contain		r	Non-Cor	npliant I	items*	
I declare under penalty of perjury th knowledge the work during the pe compliance with the approved plans	riod covered by this report has	re true and the of my ow s been performed and				minimum of 4 hours for wor project and no work is perfo						
Inspectors Name	GORDON L	EWIS		Аррг	oved Authorize	ed by	(PROJECT	SUPERINT	ENDENT			
Inspectors Signature	rordon Te	wis				ſ	H	EN	Tin	لات		
Inspectors License # 5009669-48 Submitted by												



3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

INSPECTOR CODE		DATE September 6, 2006 M T W T F S S										
JOB NAME Univers	ity of California of	Riverside C.I	I.A.S.S.		BUILD F	PERMITN	IUMBER /	DSA / OSHPD APP F	ILE#	Riverside		
ADDRESS 3615 Ca	anyon Crest Dr.		CITY Riverside		GENER	AL CONT	RACTOR	S.J. Amoroso				
ARCHITECT Leo I	Daily	ENGINEER S	aiful/Bouquet		SUBCO	NTRACTO	OR (If Any)	Pacific Coast Ste	el			
REQUIREMENTS identified. Commu	: Limit of one job	number one permit	number per she	et. Identify a	all work t	y type a	nd SPECI	FIC location. Non-	compliant work r	nust be specifically		
building and permi			evious non-comp			isicu. ive	cora com	rersadoris and com		r project designers,		
					URS					WE 01:5		
REGUI	_AR	1.5X			2X			3:00 AM		:00 AM		
П			☐ Show-Ui	n Only	Expenses							
Deinforcemen	et Concento		oncrete Placemer							onry		
Reinforcement	nt Concrete	X Co	oncrete Flacemen	Prestress			asonry _					
Quality Conti	or L] Administration	Ш			•						
STARTED @:		1st TRUCK BATC	uen.	INSPE			PLACEN	AENT:				
				······				<u> </u>				
OBSERVAT	ION OF REINFO	DRCEMENT PLA	CEMENT @ LE	VEL 2 NO	RTH BU	ILDING	REF. S	- 105 & S - 105R	COMPLETED	PLACING		
TOP MATT	#4 @ 12" ON CE	ENTER & ADDED	BARS GRID L	INE 17-23	/LX-PX	, COMP	LETED	PLACING COLUI	MN REINFORC	EMENT		
CN8 @ GRI	D LINES 19-NX,	21-NX, 21-MX, C	COLUMN CS10	@ GRID L	INE 20-	NX PEF	SCHED	OULE DETAIL 1/	S-300.			
OBSERVAT	OBSERVATION OF CONCRETE PLACEMENT, APPROXIMATELY 460 CU. YDS. ROBERTSON'S CONCRETE MIX #CHJ05372,											
5000 P.S.I. (5000 P.S.I. @ LEVEL 2 GRID LINE 12-23 / K-R & LX-PX. USED BOOM TRUCK FOR CONCRETE PLACEMENT & ELECTRIC											
VIBRATOR	FOR CONSOLIE	DATION. A.C.I. TI	ECHNICIAN MA	DE 4 SET	S OF 4	SAMPL	ES, LOC	ATION ON HIS F	REPORT.			
		- .	•									
	· · · ·											
	-											
				SAM	PLES				· · · · · · · · · · · · · · · · · · ·			
SUPPLIER:	·	······································		- OAIVI	FLLO			·				
MIXED NO	TICKET#	DESIGN SLUMP	MEASURED	ADMIX	TIDE	DESI	GN PSI	CUBIC YARDS	SPECIMENS	TEMPERATURE		
WIXED NO	HORE!#	DESIGN SLUVIP	SLUMP	ADIMIA	IONE	DEGI	GNFSI	COBIC TANDS	3F LOIMENG	AMB CONC.		
				-	_							
					r							
Additional Pag	ge (Page #) CM				REP	ORT 🗆	Contair Does N	ns lot Contain	No	n-Compliant Items		
	Certifica	ition of Compliance			All inco	netions bo	and on minis	were of 4 hours for work	porformed over 4 has	um – 8 hours minimum		
I declare under penalty knowledge the work du compliance with the appr	ring the period cover	ed by this report has I	peen performed and									
Inspectors Name		GORDON LE			Approved Authorized by (PROJEOT SUPERINTENDENT)							
Inspectors Signatur	· Dor	don Jes	vis	·				•	A F	MERED		
Inspectors License # 5009669-48						nitted by						



Inspector's License #_

3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

714/556-5867 • 714/556-5868 **Inspection Report TESTING ENGINEERS** 9-6-06 BUILD PERMIT NUMBER / DSA / OSHPD APP. FILE# JURISDICTION IS CANYON CREST DR. RIVERSIDE REQUIREMENTS: Limit of one job number, one permit number per sheet. Identify all work by type and SPECIFIC location. Non-compliant work must be specifically identified. Communication (RFI, Sketch, etc.) voiding previous non-compliant items must be listed, record conversations and communications with project designers, building and permit granting authority officials. SUBCONTRACTOR (If Any) **HOURS** TIME IN TIME OUT REGULAR 1.5X 11:03 Am 3:30 Am Expenses Re-Inspection Show-Up Only _____ Reinforcement Concrete ____ Concrete Placement ____ Masonry ___ Reinforcement Masonry ___ Wother ACI TEXAS Quality Control _____ Administration ____ Prestress/Post Tension ____ INSPECTION STARTED @: 4:00 Am METHOD OF PLACEMENT: PLAND 1st TRUCK BATCHED: NX.5/18.7 SAMPLES SUPPLIER: Robert SONS MEASURED TEMPERATURE **CUBIC YARDS** MIXED NO. TICKET # DESIGN SLUMP **ADMIXTURE DESIGN PSI SPECIMENS** AMB CONC. SLUMP 460 5000 /6 Contains **REPORT** Non-Compliant Items Additional Page (Page #) CM Does Not Contain Certification of Compliance All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours minimum. I declare under penalty of perjury that all of the above statements are true, and that of my own If inspector is called to a project and no work is performed a 2 hour minimum charge will be applied. personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans, specifications and all applicable codes Inspector's Name BAR & Approved/Authorized by_ Inspector's Signature _

Submitted by _



Inspection Report

3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 ●714/556-5868

JOB NUMBER INSPECTOR CODE September 7, 2006 BUILD PERMIT NUMBER / DSA / OSHPD APP FIL University of California of Riverside C.H.A.S.S. Riverside GENERAL CONTRACTOR Riverside S.J. Amoroso 3615 Canyon Crest Dr. SUBCONTRACTOR (If Any) Pacific Coast Steel Saiful/Bouquet Leo Daily REQUIREMENTS: Limit of one job number one permit number per sheet. Identify all work by type and SPECIFIC location. Non-compliant work must be specifically identified. Communication (RFI Sketch, etc.) voiding previous non-compliant items must be listed. Record conversations and communications with project designers building and permit granting authority officials. HOURS TIME IN TIME OUT REGULAR 7:00 AM 2:00 PM 8 Show-Up Only Expenses Reinforcement Concrete Concrete Placement Masonry Reinforcement Masonry Reinforcement Masonry WELDING Quality Control _____ Administration _____ Prestress/Post Tension _____ X Other __ INSPECTION METHOD OF PLACEMENT: STARTED @: 1st TRUCK BATCHED: OBSERVATION OF WELDING 4" & 6" PIPE, HOT WATER & CHILL WATER, WELD TYPE SINGLE BEVEL GROOVE WELD. PROCESS S.M.A.W. MANUAL 1/8 6010, WELDER JOSE SALZAR, ON FILE, WELDING ON GOING. OBSERVATION OF REINFORCEMENT PLACEMENT @ LEVEL 3 SOUTH BUILDING REF. S-106. REINFORCEMENT PLACEMENT FOR BEAMS #BS50 TWO PLACES & BS34 @ GRID LINE A / 3.5-7, PER SCHEDULE DETAIL 1/S-400 & 1/S-401. REINFORCEMENT PLACEMENT ON GOING **SAMPLES** SUPPLIER: TEMPERATURE MEASURED MIXED NO TICKET# SPECIMENS DESIGN SLUMP ADMIXTURE DESIGN PSI CUBIC YARDS SLUMP AMB CONC. Contains REPORT Additional Page (Page #) CM Non-Compliant Items Does Not Contain X Certification of Compliance All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours minimum If inspector is called to a project and no work is performed a 2 hour minimum charge will be applied I declare under penalty of perjury that all of the above statements are true and the of my own personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans specifications and all applicable codes Inspectors Name **GORDON LEWIS** Approved Authorized by Inspectors Signature 5009669-48 Inspectors License # Submitted by



Inspection Report

3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 ● 714/556-5868

JOB NUMBER INSPECTOR CODE September 8, 2006 BUILD PERMIT NUMBER / DSA / OSHPD APP FILE University of California of Riverside C.H.A.S.S. Riverside CITY GENERAL CONTRACTOR Riverside S.J. Amoroso 3615 Canyon Crest Dr. SUBCONTRACTOR (If Any) ARCHITECT Pacific Coast Steel Saiful/Bouquet Leo Daily REQUIREMENTS: Limit of one job number one permit number per sheet. Identify all work by type and SPECIFIC location. Non-compliant work must be specifically identified. Communication (RFI Sketch, etc.) voiding previous non-compliant items must be listed. Record conversations and communications with project designers, building and permit granting authority officials. HOURS TIME IN TIME OUT REGULAR 7:00 AM 2:00 PM Show-Up Only ____ Expenses Reinforcement Concrete _____ Concrete Placement Masonry Reinforcement Masonry Quality Control Administration Prestress/Post Tension X Other INSPECTION METHOD OF PLACEMENT: 1st TRUCK BATCHED: STARTED @: OBSERVATION OF REINFORCEMENT PLACEMENT @ LVEL 3 SOUTH BULDING REF.S-106, COPLETED PLACING REINFORCEMENT ON BEAMS #BS50 TWO PLACES GRID LINE A/4-6, BS34 GRID LINE A-6.5, BS25 GRID B-6.9, BS32 GRID A.7-6.5, BS26 GRID A.5-6, BS27 GRID A.7-5, BS10 GRID 6.3-B, BS26A GRID 6-B, BS7 THREE PLACES GRID LINE B.4, BS19 GRID 3.7-B & BS42 GRID 3.5-B.5 PER SCHEDULE DETAIL 1/S-400 &S-401. COMPLETED PLACING REINFORCEMENT FOR SHEAR WALLS LEVEL 3-4 GRID LINE 3/F-G PER DETAIL C/S-501, GRID LINE J.2/1.5-2.8, WALL @ GRID LINE J.8/1.9 PER DETAIL A/S-800. REINFORCEMENT PLACEMENT ONGOING. OBSERVATION OF WELDING 4" & 6" HOT WATER & CHILL WATER PIPE @ LEVEL 1 CEILING GRID LINE 1.8-A.2. WELDING SINGLE BEVEL GROOVE WELD, PROCESS S.M.A.W. 1/8 6010, WELDER CERTS.ON FILE. SAMPLES SUPPLIER: TEMPERATURE MEASURED **SPECIMENS ADMIXTURE** DESIGN PSI CUBIC YARDS TICKET# DESIGN SLUMP MIXED NO AMB CONC. SLUMP REPORT Contains Non-Compliant Items -Additional Page (Page #) CM X Does Not Contain Certification of Compliance All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours minimum If inspector is called to a project and no work is performed a 2 hour minimum charge will be applied I declare under penalty of perjury that all of the above statements are true and the of my own personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans specifications and all applicable codes **GORDON LEWIS** Approved Authorized by Inspectors Name Inspectors Signature 5009669-48 Submitted by Inspectors License # **ACCOUNTING**



TESTING ENGINEERS Inspection Report 3035 S. Harbor Blvd. Santa Ana, CA 92704

714/556-5867 • 714/556-5868

INSPECTOR CODE	JOB NUMBER		DATE September 11, 2006 M 1 W 1 F S S									
JOB NAME Univers	ity of California of	f Riverside C.H	I.A.S.S.		BUILD PERMIT NUMBER / DSA / OSHPD APP FILE# Riverside							
ADDRESS	anyon Crest Dr.		CITY Riverside		GENER	AL CONTRACTOR	S.J. Amoroso					
ARCHITECT Leo [ENGINEER Sa	aiful/Bouquet		SUBCO	NTRACTOR (If Any	Pacific Coast Ste	eel				
REQUIREMENTS	: Limit of one job	number one permit	number per shee	et. Identify a	li work b	y type and SPEC	IFIC location. Non	-compliant work	must be s	pecificall		
identified. Commu building and permi		etch, etc.) voiding pr ty officials.	evious non-comp	liant items n	nust be l	isted. Record con	versations and cor	nmunications w	in project a	esigners		
					URS							
REGUL	LAR	1.5X			2X		6:00 AM		TIME OUT 2:00 PM			
8							U.UU AW					
]			Show-Up	Only			Exper	ises				
Reinforcemen	nt Concrete	<u>X</u> C	oncrete Placemer	nt		Masonry _	Re	inforcement Mas	onry			
Quality Contr	ol [c	Administration	□	Prestress	/Post Te	nsion	Other		··· · · · · · · · · · · · · · · · ·			
				INSPE	CTIO	N						
STARTED @:		1st TRUCK BATC	HED:		MET	HOD OF PLACE	MENT:					
OBSERVAT	ION OF CONC	RETE PLACEMEN	NT @ SHEAR W	ALLS & C	OLUMN	IS LEVEL 3 SOI	JTH BUILDING I	REF. S-106, PI	ACED			
		SRID LINES E-1, F										
		1 / H-J, J.2 / 1.7-										
		Y 76 CU. YDS. RC										
MADE 1 SE	T OF 4 SAMPL	ES @ TOP OF SH	IEAR WALL LE	VEL 3 GRI	D LINE	G-3 , ABOVE C	ONCRETE PLAC	EMENT LEVE	<u>L 3 - 4.</u>			
IN PROCES	S OF PLACING	REINFORCEME	NT @ LEVEL 3	GRID LINE	= 1-7 / <i>F</i>	-C, #5 [T&B]@	12" ON CENTER	REF.S-106 &	ADDED			
BARS PER	S-106R.											
 		· · · · · · · · · · · · · · · · · · ·										
				SAM	PLES							
SUPPLIER:		ROBERTSON'S	S									
MIXED NO	TICKET#	DESIGN SLUMP	MEASURED SLUMP	ADMIX	TURE	DESIGN PSI	CUBIC YARDS	SPECIMENS		RATURE CONC.		
44243	4505424	4"	4 1/2	1		5000	10	4	62	68		
			<u> </u>	 					1			
				 					1			
		<u> </u>		<u> </u>	Γ	Contai	_l ins					
Additional Pa	ge (Page #) CM				REP	ORT —	Not Contain	<i>N</i>	lon-Compli	ant Items		
	Certific	cation of Compliance	•		All ins	pections based on min	imum of 4 hours for wor	k performed over 4 h	ours = 8 hour	s minimum		
		the above statements are ered by this report has			If insp	ector is called to a proj	ect and no work is perfo	rmed a 2 hour minim	um charge wi	ll be applied		
		ions and all applicable coo					. 1					
nspectors Name GORDON LEWIS					Appr	oved Authorized b	y vi	(PROJECT SUPERINTI	MSENT)			
Inspectors Signature <u> Docton Jewis</u>												
nspectors License # 5009669-48					Subr	nitted by			<u> </u>) 		
		0000000	<u>,</u>	ACCOL	JNTING	-	· · · · · · · · · · · · · · · · · · ·	O 178	MEH			



TESTING ENGINEERS

Inspection Report

3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

INSPECTOR CODE	JOB NUMBER	05-1425		DATE September 12, 2006 M T W T F S S							
JOB NAME University of California of	Riverside C.H	.A.S.S.		BUILD P	ERMIT N	UMBER / D	SA / OSHPD APP F	ILE#	Riverside		
ADDRESS 3615 Canyon Crest Dr.		CITY Riverside		GENER	AL CONTI	RACTOR	S.J. Amoroso				
ARCHITECT Leo Daily	ENGINEER Sa	iful/Bouquet		SUBCO	NTRACTO	R (If Any)	Pacific Coast Ste	el			
REQUIREMENTS: Limit of one job identified. Communication (RFI Ske	number one permit	number per she	et. Identify a	ll work b	y type ar	nd SPECII	FIC location. Non- ersations and con	compliant work n	nust be specifically project designers,		
building and permit granting authori								· · · · · · · · · · · · · · · · · · ·			
REGULAR	1.5X			URS	·····		TIME IN	Ti	ME OUT		
8	1.07			7:00 AM 2:00 PM							
		Show-U	p Only	Expenses							
Reinforcement Concrete		oncrete Placeme	nt		Ma	sonry _	Rei	nforcement Maso	onry		
Quality Control	Administration	🗆	Prestress	/Post Te	nsion _		Other				
			INSPE	CTIO	N						
STARTED @:	1st TRUCK BATC	HED:		MET	HOD OF	PLACEM	ENT:				
OBSERVATION OF REINF	ORCEMENT PLA	CEMENT @ LE	VEL 3 SOL	JTH BU	ILDING	REF.S-1	06 & S-106R, C	OMPLETED BE	AM #BS23 @		
GRID LINE A/1-3.5 PER BE											
BOTTOM 12" ON CENTER									1		
LAYER GRID LINE 1-7/A-C									1		
DETAIL 2/S-404.											
IN PROCESS OF PLACING	REINFORCEME	NT @ LEVEL 2	NORTH B	BUILDING REF.S-105, FOR SHEAR WALLS & COLUMNS							
NON-COMPLIANCE @ LEV											
BE SEVERAL INCHES SER									1		
								· · . · . · · · · · · · · · · · · ·			
				••••							
			SAM	PLES	3						
SUPPLIER:											
MIXED NO TICKET #	DESIGN SLUMP	MEASURED SLUMP	ADMIX	TURE	DESI	GN PSI	CUBIC YARDS	SPECIMENS	TEMPERATURE AMB CONC.		
								<u> </u>			
									<u></u>		
Additional Page (Page #) CM	ORT 🖂	Contair Does N	ns Iot Contain	No	on-Compliant Items						
Certific		All ine	nactions ha	sed on minir	num of A hours for worl	c performed over 4 ho	urs = 8 hours minimum				
I declare under penalty of perjury that all of the above statements are true and the of my own personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans specifications and all applicable codes											
Inspectors Name GORDON LEWIS					oved Aut	thorized by		PROJECT SUPERINTE	NDEND .		
Inspectors Signature Dordon Lews							'	O MODEO I GONCIONIEI	Philips bown		
Inspectors License # 5009669-48					Submitted by						



Inspection Report

3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 ● 714/556-5868

JOB NUMBER INSPECTOR CODE September 13, 2006 BUILD PERMIT NUMBER / DSA / OSHPD APP FILE University of California of Riverside C.H.A.S.S. Riverside CITY GENERAL CONTRACTOR Riverside S.J. Amoroso 3615 Canvon Crest Dr. SUBCONTRACTOR (If Any) Pacific Coast Steel Leo Daily Saiful/Bouquet REQUIREMENTS: Limit of one job number one permit number per sheet. Identify all work by type and SPECIFIC location. Non-compliant work must be specifically identified. Communication (RFI Sketch, etc.) voiding previous non-compliant items must be listed. Record conversations and communications with project designers building and permit granting authority officials. HOURS TIME OUT REGULAR TIME IN 2:00 PM R 7:00 AM __ Expenses Show-Up Only Reinforcement Concrete _____ Concrete Placement _ _____ Masonry ____ Reinforcement Masonry ___ Quality Control _____ Administration ____ Prestress/Post Tension _____ Other _ INSPECTION STARTED @: 1st TRUCK BATCHED: METHOD OF PLACEMENT: OBSERVATION OF REINFORCEMENT PLACEMENT @ LEVEL 3 SOUTH BUILDING REF. S-106 & S-106R, COMPLETED PLACING TOP LAYER #5 @ 12" ON CENTER EACH WAY GRID LINE 3.5-7 / A-B.4. IN PROCESS OF PLACING TOP LAYER GRID LINE 1-3.5 / A-D. COMPLETED PLACING ADDED BARS GRID LINE 3.5-7 / A-B.4 REF. S-106R. IN PROCESS OF PLACING SHEAR WALL & COLUMN REINFORCEMENT @ LEVEL 2 NORTH BUILDING REF.S-105, ONGOING. REBAR SAMPLES WERE PICKED UP FOR TESTING, INCLUDED WERE MILL CERTS, & DATA SHEET, **SAMPLES** SUPPLIER: TEMPERATURE MEASURED MIXED NO TICKET# **DESIGN SLUMP ADMIXTURE** DESIGN PSI **CUBIC YARDS** AMB CONC. SLUMP REPORT Contains Additional Page (Page #) CM Non-Compliant Items Does Not Contain Certification of Compliance All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours minimum If inspector is called to a project and no work is performed a 2 hour minimum charge will be applied I declare under penalty of perjury that all of the above statements are true and the of my own personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans specifications and all applicable codes Inspectors Name **GORDON LEWIS** Approved Authorized by Inspectors Signature Inspectors License # 5009669-48 Submitted by



Inspection Report

3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 ● 714/556-5868

JOB NUMBER INSPECTOR CODE September 14, 2006 BUILD PERMIT NUMBER / DSA / OSHPD APP FIL University of California of Riverside C.H.A.S.S. Riverside CITY GENERAL CONTRACTOR 3615 Canvon Crest Dr. Riverside S.J. Amoroso SUBCONTRACTOR (If Any) Pacific Coast Steel Saiful/Bouquet Leo Daily REQUIREMENTS: Limit of one job number one permit number per sheet. Identify all work by type and SPECIFIC location. Non-compliant work must be specifically identified. Communication (RFI Sketch, etc.) voiding previous non-compliant items must be listed. Record conversations and communications with project designers, building and permit granting authority officials. HOURS TIME IN TIME OUT REGULAR R 7:00 AM 2:00 PM Show-Up Only ____ _____ Expenses Reinforcement Concrete _____ Concrete Placement ____ Masonry ____ Reinforcement Masonry ____ Quality Control _____ Administration ____ Prestress/Post Tension ____ Other INSPECTION STARTED @: METHOD OF PLACEMENT: 1st TRUCK BATCHED: OBSERVATION OF REINFORCEMENT PLACEMENT @ LEVEL 3 SOUTH BUILDING REF. S-106 & S-106R, COMPLETED PLACING STRUCTURAL SLAB REINFORCEMENT #5 [T&B] @ 12" ON CENTER GRID LINE 1-6.5 / A-D.5. GRID LINE 6.5-7.2 / A-B.4 REINFORCEMENT PER S4 SCHEDULE DETAIL 2 / S-404. COMPLETED PLACING ADDED BARS @ ABOVE AREA PER S-106R. STAIR #3 LEVEL 2-3 REINFORCEMENT PER DETAILS ONS-802. LAP SPLICES PER SHOP DRAWINGS & DETAIL 4 / S-002 ALL REINFORCEMENT GRADE 60. THE ABOVE AREA ACCEPTABLE FOR CONCRETE PLACEMENT. IN PROCESS OF PLACING REINFORCEMENT @ LEVEL 2-3 NORTH BUILDING SHEARWALLS REF.S-105 & A / S-503 SAMPLES SUPPLIER: TEMPERATURE MEASURED MIXED NO TICKET# **DESIGN SLUMP ADMIXTURE DESIGN PSI CUBIC YARDS SPECIMENS** SLUMP AMB CONC. REPORT Contains Additional Page (Page #) CM Non-Compliant Items Does Not Contain Certification of Compliance All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours minimum If inspector is called to a project and no work is performed a 2 hour minimum charge will be applied I declare under penalty of perjury that all of the above statements are true and the of my own personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans specifications and all applicable codes Inspectors Name **GORDON LEWIS** Approved Authorized by Inspectors License # 5009669-48 Submitted by



3035 S. Harbor Blvd.

Santa Ana, CA 92704

714/556-5867 ● 714/556-5868

INSPECTOR CODE		JOB NUMBER	05-142	• . 5	DATE	Senten	ber 15, 2006	MITW	T F S S			
JOB NAME Univers	sity of California of	Riverside C.I	H.A.S.S.		BUILD		ER / DSA / OSHPD APP	FILE#	Riverside			
ADDRESS 3615 C	anyon Crest Dr.	······································	CITY Riverside		GENER	AL CONTRAC	S.J. Amoroso					
ARCHITECT Leo	Daily	ENGINEER S	aiful/Bouquet		SUBCO	NTRACTOR (I	Any) Pacific Coast St	eel				
REQUIREMENTS	: Limit of one job	number one permi	t number per sh	eet. Identify a	all work b	y type and S	PECIFIC location. Non		must be specifically			
	unication (RFI Ske	tch, etc.) voiding p					conversations and cor					
					URS							
REGU 8		1.5X			2X		5:00 AM		:OO PM			
				I- 0.1.					OO FIW			
□ Boinformano	nt Conomic	□ 0	oncrete Placeme			C Mason		inforcement Mase				
_	nt Concrete						y Re		onry			
Quality Conti	lo	Administration		•								
STARTED @:	,	1st TRUCK BATC	HED:	INSPE		HOD OF PLA	CEMENT:					
	TON OF CONCE	DETE DI ACEMEN		COLITILIDI		CDID LINE	A D E / 4 7 9 CTAI	D-#2 EVEL 2 2				
							A-D.5 / 1-7 & STAIL					
							USED BOOM TRUC					
	PLACEMENT, USED ELECTRIC VIBRATOR FOR CONSOLIDATION. A.C.I. MADE SAMPLES, LOCATION ON HIS REPORT.											
	OSERVATION OF REINFORCEMENT PLACEMENT @ LEVEL 2 NORTH BUILDING REF. S-105, PLACED REINFORCEMENT FOR SHEAR											
							COLUMNS GRID LI					
		5, Q-17, N.4-17,	NX-17.9, LX-1	8, PX-18.5,	LX-19, 1	LX-20, LX-29	9 & LX-22.9, PER CO	ONCRETE COL	.UMN			
SCHEDULE	S-300		····		·							
REINFORCI	EMENT PLACE	MENT ONGOING		· · · · · · · · · · · · · · · · · · ·	······································							
	-,	· · · · · · · · · · · · · · · · · · ·										
												
												
<u> </u>												
				SAM	PLES				···			
SUPPLIER:		T	MEASURED						TEMPERATURE			
MIXED NO	TICKET#	DESIGN SLUMP	SLUMP	ADMIX	TURE	DESIGN P	SI CUBIC YARDS	SPECIMENS	AMB CONC.			
						<u> </u>						
Additional Page	Additional Page (Page #) CM REPORT Contains Non-Compliant Items											
	Certifica	ation of Compliance)		All iner	pections based or	minimum of 4 hours for wor	k performed over 4 ha	urs = 8 hours minimum			
I declare under penalty knowledge the work du compliance with the app	uring the period cover	ed by this report has	been performed and				project and no work is perfo					
Inspectors Name		GORDON LE	wis		Appn	oved Authoriz		(PROJECT SUPERINTE	IDENTO			
Inspectors Signatu	re <u> 200</u> 0	don 2	ews				,	TIME				
Inspectors License # 5009669-48 Submitted by												



ESTING ENGINEERS

Inspection Report

3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

IESTING EN	GINEEKS			pooti		•			•		
INSPECTOR SOPE	NSTET	JOB NUMBER	51429	<u> </u>	DATE	3-15-04	M	TW	T X	/ S	S
JOB NAME,	1.1.	0111			ROILD PE	ERMIT NUMBER / DSA	/ USHPD APP. FILE		JURISDICTIO	N	
ADDRESS	- 10-11 -	V CLUST	Da Pin	رسدد ی جی	GENERA	LCONTRACTOR 2	mala	C A			
ARCHITECT	DATE OF CATO	ENGINEER	P. I - Da	N.S/CE	SUBCON	TRACTOR (If Any)	<u> </u>	> <i>O</i>			
1.20	WILL	ob number, one pe	-U C - DOC	1 Call	-7				mpliant wor	rk mus	t be
specifically iden	tified. Communic	ation (RFI, Sketch, and permit granting	, etc.) voiding pre	evious no	n-compl	iant items must be	listed, record c	onversations	and comm	nunicati	ions
with project des	ngriors, building t				URS	-					
REGUI	LAR	1.5X			2X		TIME IN		TIME O	UT	
8	,			_		4	130m	10.	15h	-	
Re-Inspecti	on		☐ Show-Up	Only			DExpe	nses			
									nt Masoni		
Heinforcem	ent Concrete _		ncrete riaceni	Droctr	occ/Do	t Tonsion	—— U'''	, ACI	TESCH	y	
Quality Cor	Illoi	Administratio	//! L_			St 161151011		7,0		•	
				INSPE	CTION			<i>a</i>			
STARTED @:	5:00 Am		BATCHED:			ETHOD OF PLA					
		Assis.	pel DE	Dut	6	. LEwis	w/	<u>.</u>			
	7	TING	Bust	1/2	Post	that I	PACEN	wit			
		1/100	A DISTES	7	E O K	Para	a LEW	al W:	3		
	. •					- / Just E	<u> </u>				
		South	Mago			1 1	1 1				
			1 SEK	or	4	Cylina	ers ch	57			
		5271	Ser	12							
1	Sè o	620	4	200							
Co	NC O	78°	7	80							
81	in	41/2"		1/2"							
Test Da	and and the	0.2/35		2.6							
IESI FIM	CEMEN	0.29 52		<u> </u>							
							 	 -			
				SAN	IPLES						
SUPPLIER:	Rober	BINS									
MIXED NO.	TICKET#	DESIGN SLUMP	MEASURED SLUMP	ADM	XTURE	DESIGN PSI	CUBIC YARDS	SPECIM		MPERA MB CO	
643	469	411	41/2"	~	5 .,	5000	270	4	la	2 6 1	7.8°
05372	469	411+	1116			6000	270	2L	/	-0	201
	9490	7	ナーノン	~		2000	210	-		<u> </u>	لنيها
				<u> </u>			ino				
Additional F	Page (Page #)	CM	··· · · · ·		REPO	ORT Conta	ins Not Contain	N	Non-Comp	oliant	Items
	Certificati	on of Compliand	e		All inspe	ections based on minim		rk performed over	er 4 hours = 8	hours m	ninimum
personal knowledge	the work during the p	of the above statements period covered by this re	eport has been perfo	of my own rmed and		ctor is called to a project					
		lans, specifications and)].	/		
Inspector's Na	ime 5/17	7 6, BR	ANSTET	722	Appro	oved/Authorized	l by	(PROJECT SUF	DEBINITE NAME	W. 194	
nspector's Sig	gnature <u>///</u>	1/4B	tentita	5_				(FROJECIA)	J. KIN	المالا	
I nspector' s Lic	ense#_ Ø	104145	55		Subn	nitted by					
Aci						-					



3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 ● 714/556-5868

INCOPPOTOD CODE	JOB NUMBER	11.10	pootio	DATE	, , , , , , , , , , , , , , , , , , , 		MITIWI	TIFISIS				
INSPECTOR CODE	JOB NUMBER	05-1425	Ì		September 1		X					
JOB NAME University of Californ	nia of Riverside C.F	I.A.S.S.				SA / OSHPD APP I	FILE#	Riverside				
ADDRESS 3615 Canyon Crest	Dr.	CITY Riverside		GENERAL	CONTRACTOR	S.J. Amoroso						
ARCHITECT Leo Daily	ENGINEER S	aiful/Bouquet		SUBCONT	RACTOR (if Any)	Pacific Coast Ste	el					
REQUIREMENTS: Limit of or	e job number one nermi	number per sheet	t. Identify all	work by	ype and SPECIF	IC location. Non-	compliant work	must be specifically				
identified. Communication (RF building and permit granting au		evious non-compli	ant items m	ust be list	ed. Record conve	ersations and con	nmunications wit	h project designers,				
building and permit granting at	atonty onicials.		HOL	JRS								
REGULAR	1.5X		2)			TIME IN		IME OUT				
8		:				7:00 AM	2	:00 PM				
		☐ Show-Up	Only	Expenses								
Reinforcement Concrete	🗆 c	oncrete Placement	t		Masonry	Rei	nforcement Mas	onry				
Quality Control	Administration		Prestress/F	ost Tens	ion	Cther						
	-		INSPE	CTION	}							
STARTED @:	1st TRUCK BATC	HED:			OD OF PLACEM	ENT:						
OBSERVATION OF RE	INFORCEMENT PLA	CEMENT FOR C	OLUMNS	@ LEVE	L 3-4 SOUTH E	UILDING GRID	LINE D-4, C.6	-2.6,				
C-2.4, PER CONCRET												
						DETAIL BIO-OC	JE, OND ENVE					
HAS 4#7 PER DETAIL								DED.				
IN PROCESS OF INST					•		LINE L/12-17	PER				
DETAIL B/S-504. LAP	SPLICES PER SCHEE	OULE DETAIL 1/S	S-301. REII	NFORCE	MENT GRADE	60.						
REINFORCEMENT PL	ACEMENT ON GOING)			,							
OBSERVATION OF W	ELDING 4" & 6" HOT \	WATER PIPE & C	CHILL WA	TER PIPI	E@LEVEL10	EILING GRID	LINE 1.8-D,					
PROCESS - S.M.A.W.	MANUAL 1/8 6010 - V	VELDING SINGL	E BEVEL (GROOVE	WELD ACCE	PTABLE, WELD	ER CERT.					
ON FILE. WELDING O	NGOING.											
		-										
,	, et . , et											
			CANA	OL EC								
r			SAMF	LES		·						
SUPPLIER:		MEASURED	······			· · · ·		TEMPERATURE				
MIXED NO TICKET	# DESIGN SLUMP	SLUMP	ADMIXT	URE	DESIGN PSI	CUBIC YARDS	SPECIMENS	AMB CONC.				
								İ				
		L		REPO	Contain	S	N.	on-Compliant Items				
Additional Page (Page #)	См			1121 01	`` X Does N	ot Contain	(N	on-compliant items				
C	ertification of Compliance	•						ours = 8 hours minimum				
I declare under penalty of perjury that knowledge the work during the period				If inspect	or is called to a projed	t and no work is perfo	rmed a 2 hour minima	um charge will be applied				
compliance with the approved plans spe					_		<u> </u>					
Inspectors Name	GORDON LE	WIS		Approv	ed Authorized by		PROJECT SUPERINTE	NENT				
Inspectors Signature Dordon Lewis							W. WOLO. SOFEWALE	J				
Inspectors License # 5009669-48					ted by		^ A	aiterf.D				
Inspectors License # 5009669-48 ACCOU					·		ノ門は	MITTIN				



3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 ●714/556-5868

INSPECTOR CODE		JOB NUMBER	05-1	425	DATE	Sept	ember 1	9, 2006	MT		TFSS		
JOB NAME University of Calif	omia of River	side C.H	I.A.S.S.		BUILD PERMIT NUMBER / DSA / OSHPD APP FILE# Riverside								
ADDRESS 3615 Canyon Cre	st Dr.		CITY Riversi	de		AL CONTRA		S.J. Amoroso					
ARCHITECT Leo Daily		ENGINEER Sa	aiful/Bouquet		SUBCO	NTRACTOR	R (If Any)	Pacific Coast Ste	el:				
REQUIREMENTS: Limit of identified. Communication (one job numb	per one permit	number per	sheet. Identify a	all work b	y type and	SPECIF	IC location. Non	-compli	ant work r	nust be specifically		
building and permit granting	authority offic	ials.	evious non-c			isieu. Neu		asauchis and cor			r project designers,		
					URS			TIME IN		 -	IME OUT		
REGULAR 8		1.5X			2X			7:00 AM	_		:00 PM		
П			☐ Show	w-Up Only	Expenses								
Reinforcement Concret	<u> </u>	[] Co	oncrete Place				onry	— — Re	inforcer	nent Maso	onry		
Reinforcement Concret Quality Control		dministration	morete i lace	Prestress			·,	Cther					
Guanty Control	_ ⊔ ~			INSPE		_		h/	****				
STARTED @:	1et 7	RUCK BATC	HED:	HAOFE		HOD OF F	PLACEM	ENT:			1		
			,										
OBSERVATION OF I													
B.4-2.3, A.7-2.3, A.2-	2.3, C-4, A-	5, A.4-5, A-6	, A.8-6 PER	CONCRETE	COLUM	N SCHEE	DULE DE	TAIL 1/ S-300	, GRID	LINE A-	3.5		
HAS 4#7 PER DETA													
COMPLETED REINFORCEMENT @ LEVEL 2 - 3 NORTH BUILDING SHEAR WALLS & COLUMNS AUDITORIUM AREA GRID									D				
LINES 12-17/L-R PER CONCRETE COLUMN SCHEDULE DETAIL 1/S-300 & SHEAR WALL DETAIL B/S-504, A/S-503, A/S-504.									04				
COLUMN LAP SPLIC	ES PER SC	HEDULE DE	TAIL 1/S-3	01 & DETAIL	4/S-002,	GRADE	60 REIN	IFORCEMENT.	. THE	ABOVE A	AREA		
WAS CLEANED WIT	H ELECTRI	C BLOWER	& LOOSE I	DEPRI, WIRES	, TRAS	H PICKEI	D UP, IN	PROCESS OF	FOR	MING CC	LUMNS&		
SHEAR WALLS- ACC	CEPTABLE.												
IN PROCESS OF PL	ACING CON	ICRETE MA	SONRY UN	ITS @ ELEVA	TOR 18	2 SOUTH	BUILD	ING GRID LINE	<u> </u>	/3.6-4.1.			
PLACED 4 COURSE	S, MADE 1	SET OF 3 SA	MPLES @	1ST COURSE	GRID I	INE K-4.	1. C.M.l	J. PLACEMEN	<u>r ong</u>	OING.			
/ KRETSCHMAR & SN	IITH PLACII	NG C.M.U. U	SING ELEC	TRIC DRUM	MIXER 8	R ORCO	PRE MIX	KED TYPE S M	ORTA	R			
				SAM	IPLES	;							
SUPPLIER: motar	5/120	Jo.5°				·	• • •	· · · · · · · · · · · · · · · · · · ·					
MIXED NO TICKE		SIGN SLUMP	MEASURI SLUMP		TURE	DESIG	N PSI	CUBIC YARDS	SPE	ECIMENS	TEMPERATURE AMB CONC.		
									T				
Additional Page (Page	#) CM				REP	ORT	Contain Does N	s ot Contain		No	on-Compliant Items		
		 	لينا										
I declare under penalty of perjury th knowledge the work during the pe compliance with the approved plans		All insp	pections base ector is called	ed on minim I to a projec	um of 4 hours for wor t and no work is perfo	k perform rmed a 2	ed over 4 ho hour minimu	ours = 8 hours minimum am charge will be applied					
Inspectors Name GORDON LEWIS					Appr	oved Auth	orized by		4	V			
Inspectors Signature <u>Bordon Jewis</u>									(PROJECT	T SUPERINTEI	VIDEOTT)		
Inspectors License #		•	nitted by			A	EN'	TEHED					
	ACCOUNTING												



3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

INSPECTOR CODE	JOB NUMBER 05-	1425	DATE September 20, 2006 M T W T F S S							
JOB NAME University of California of			BUILD PERMIT N	IUMBER / DSA / OSHPD APP	FILE#	Riverside				
ADDRESS 3615 Canyon Crest Dr.	CITY River	side	GENERAL CONT	RACTOR S.J. Amoroso						
ARCHITECT Leo Daily	ENGINEER Saiful/Bouque	et	SUBCONTRACT	OR (If Any) Pacific Coast St	eel					
REQUIREMENTS: Limit of one job	number one permit number pe	er sheet. Identify al	I work by type a	nd SPECIFIC location. Nor	-compliant work n	nust be specifically				
identified. Communication (RFI Ske building and permit granting authorit		compliant items m	iust be listed. Re	ecord conversations and co	mmunications with	project designers,				
			JRS		T Ti	ME OUT				
REGULAR 8	1.5X	2	X	TIME IN 7:00 AM		ME OUT 00 PM				
	□ Sh	ow-Up Only	Expenses							
Beinforcement Consents										
Reinforcement Concrete Quality Control			X M Post Tension							
Quality Control			CTION			·····				
STARTED @:	1st TRUCK BATCHED:	INSFE		F PLACEMENT:		· · · · · · · · · · · · · · · · · · ·				
	<u> </u>									
	ORCEMENT PLACEMENT					[
	19.3-20 PER DETAIL D / S-									
HAVE # 5 SLAB DOWELLS	8 & #7 DOWELLS 12" ON C	ENTER @ CONS	STRUCTION J	OINT PER DETAIL 4 / S	-500, THE ABOV	E				
AREA CLEAN OF DEPRI & DIRT & IS ACCEPTABLE TO BE FORMED FOR CONCRETE PLACEMENT.										
OBSERVATION OF REINFORCEMENT PLACEMENT @ RAMP WALL LEVEL 1 GRID LINE B.5 / 3-5.9, 6" CONCRETE WALL										
	ER EACH WAY, PER DETAI									
PLACING C.M.U. & REINFO	ORCEMENT @ ELEVATOR	1 & 2, REINFOR	RCEMENT #5	V] @ 8" ON CENTER &	#5 [H] @ 16" ON	CENTER				
PLACED 6 COURSES, MAI	DE 1 SET OF 3 MORTAR S	AMPLES @ GRI	D LINE J.5-4,	USED ORCO PRE MIXE	D TYPE S MOR	TAR.				
C.M.U. PLACEMENT ON G	OING.									
				······································						
		SAM	PLES							
SUPPLIER: Andrat	samples									
MIXED NO TICKET#	DESIGN SLUMP MEASU		TURE DES	IGN PSI CUBIC YARDS	SPECIMENS	TEMPERATURE AMB CONC.				
Additional Page (Page #) CM			REPORT	Contains Does Not Contain	No	n-Compliant Items				
Certific	cation of Compliance		-							
I declare under penalty of perjury that all of t knowledge the work during the period cow compliance with the approved plans specificat	the above statements are true and the ered by this report has been perform									
Inspectors Name	GORDON LEWIS		Approved Au	uthorized by	PROJECT SUPERINTEN	idewn				
Inspectors Signature	rdon Teuro	<u> </u>				Y				
Inspectors License #	5009669-48		Submitted by							



3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

INSPECTOR CODE	JOB NUMBER	05-1425	DATE	eptember 21, 2006	MTW	T F S S			
JOB NAME University of California				NUMBER / DSA / OSHPD APP		Riverside			
ADDRESS 3615 Canyon Crest Dr.	CITY	verside	GENERAL CON	TRACTOR S.J. Amoroso					
ARCHITECT Leo Daily	ENGINEER Saiful/Bou	quet	SUBCONTRACT	OR (If Any) Pacific Coast Ste	eel				
REQUIREMENTS: Limit of one jidentified. Communication (RFI S	ob number one permit number	per sheet. Identify a	all work by type a	and SPECIFIC location. Non-	-compliant work n	nust be specifically			
building and permit granting author				ecold conversations and con	ilitidilications with	project designers,			
REGULAR	1.5X		URS 2X	TIME IN	- 1	ME OUT			
REGULAR 8	1.5X		۷۸	7:00 AM		00 PM			
		Show-Up Only		Exper	nses				
Reinforcement Concrete	Concrete I	Placement	X M	asonry X Rei	inforcement Maso	nry			
Quality Control	Administration		ـــــــــــــــــــــــــــــــــــــ	Cother		· <u></u>			
		_	ECTION						
STARTED @:	1st TRUCK BATCHED:			F PLACEMENT:		,			
ORSERVATION OF REIN	FORCEMENT PLACEMEN	IT @ SHEAR WAI	ISTEVEL 3-4	SOUTH BUILDING GRID	LINE 1 / A-A.5	PER			
	R WALL GRID LINE D / 2-3								
	DEPRI & DIRT & ACCEPTA								
	EMENT FOR SHEAR WAI				PER DETAIL E	/ S-504.			
OBSERVATION OF PLACING C.M.U. @ ELEVATOR 1&2, 16 COURSES @ LEVEL 1, MADE 1SET OF 3 SAMPLES @ 10TH COURSE									
	ORCO PRE BLENDED TY								
OBSERVATION OF WEL	DING 3", 4", & 6" CHILL W	ATER & HOT WAT	TER PIPE @ B/	ASEMENT GRID LINE A-I	B / 1.8, USING 6	5010			
	GLE BEVEL GROOVE WE								
WELDING ON GOING.					··- · · · · · · · · · · · · · · · · · ·				
						,			
		SAM	IPLES						
SUPPLIER: Mortar	samples								
MIXED NO TICKET#	DESIGN SLUMP MEA	SURED ADMIX	TURE DES	IGN PSI CUBIC YARDS	SPECIMENS	TEMPERATURE AMB CONC.			
Additional Page (Page #) CN	1	· · · · · · · · · · · · · · · · · · ·	REPORT	Contains Does Not Contain	No	n-Compliant Items			
Certi	fication of Compliance		All inspections b	ased on minimum of 4 hours for wor	k performed over 4 ho	urs = 8 hours minimum			
I declare under penalty of perjury that all of knowledge the work during the period of compliance with the approved plans specific	overed by this report has been perf	the of my own personal ormed and installed in	If inspector is ca	lied to a project and no work is perfo	rmed a 2 hour minimum	n charge will be applied			
Inspectors Name	GORDON LEWIIS		Approved Au	rthorized by	(PROJECT SUPERINTEN	DEND			
Inspectors Signature Do	idon Teur	9			A SORE . SOL ELMALE				
Inspectors License # 109669-48	3 / 5009669-84 / 5009669-8		Submitted by						



Inspection Report

3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 ●714/556-5868

INSPECTOR CODE		JOB NUMBER	05-142	 25	DATE	September :	22, 2006	MITWI	TFX	SS			
JOB NAME Univer						BUILD PERMIT NUMBER / DSA / OSHPD APP FILE# Riverside							
ADDRESS 3615 C	3615 Canvon Crest Dr. Riverside					GENERAL CONTRACTOR S.J. Amoroso							
ARCHITECT Leo	Daily	ENGINEER	aiful/Bouquet		SUBCONTRACTOR (If Any) Pacific Coast Steel								
REQUIREMENTS	: Limit of one id	b number one permit	l number per s	heet. Identify a	ll work b	y type and SPECI	FIC location. Non-	compliant work r	nust be s	pecifically			
identified. Comm building and perm		cetch, etc.) voiding pr rity officials.	evious non-co	mpliant items r	nust be li	isted. Record conv	ersations and com	munications with	n project o	esigners,			
· · ·				НО	URS								
REGU		1.5X			2X		TIME IN		ME OUT				
8 6:00 AM 2:00 PM													
Show-Up Only Expenses													
X Reinforceme	ent Concrete	X C	oncrete Placen	ment		X Masonry _	Reir	nforcement Maso	onry				
Quality Cont	rol	Administration	[Prestress	/Post Te	nsion	Other						
				INSPE	CTIO	N							
STARTED @:		1st TRUCK BATC	HED:		MET	HOD OF PLACEM	IENT:						
OBSERVA [*]	TION OF CON	CRETE PLACEMEN	IT @ LEVEL	2-3 NORTH	BUILDIN	NG SHEAR WAL	LS & COLUMNS	. SHEAR WAI	LLS				
GRID LINE	L / 12-17, GRI	D LINE 12 / M.5-N.	6, GRID LINE	17 / M-N & C	GRID LII	NE R / 12.2-14.2	. COLUMNS GR	ID LINE M-12,	Q-12,				
P-14, N-13,	M-13, R-15.1,	P-15, N-15, M-15,	Q-17, N.4-17	, PLACED AF	PROXII	MATELY 60 CU.	YDS. ROBERTS	ON'S 5000 P.	S.I.				
CONCRET	E MIX # 44243	USED ELECTRIC	VIBRATOR I	FOR CONSO	LIDATIO	ON. USED BOO	I TRUCK FOR C	ONCRETE PL	ACEME	NT.			
MADE 1 SE	T OF 4 SAMP	ES @ GRID LINE	L-13 TOP LI	FT.									
COMPLETE	D PLACING F	EINFORCEMENT	@ SHEAR W	IALL GRID LI	NE 3.5	/ A-B LEVEL 3-4	PER DETAIL D	S-501, IN PR	OCESS				
OF PLACIN	G REINFORC	MENT @ GRID LI	NE B / 4-5.5	PER DETAIL	C/S-5	02							
PLACING 8	" C,M.U. @ EL	EVATOR 1&2 GRII	D LINE 3.6, 1	6 COURSES	@ LEV	EL 1, REINFORG	EMENT #4 @ 1	6" ON CENTE	R EACH	WAY			
PER DETA	IL 10 & 11 / S-	600, MORTAR FIN	S & REBAR I	LAPS ACCEP	TABLE.			·					
										<u></u>			
				SAM	PLES	•							
SUPPLIER:		ROBERTSON'S	 S	· · · · · · · · · · · · · · · · · · ·									
MIXED NO	TICKET#	DESIGN SLUMP	MEASUREI SLUMP	D ADMIX	TURE	DESIGN PSI	CUBIC YARDS	SPECIMENS		RATURE CONC.			
44243	4700517	4	4 1/2			5000	10	4	64	64			
	<u> </u>	t	L		REP	ORT Contain	ns		0				
Additional Pa	ige (Page #) CM		·		IXILI Y	X Does N	lot Contain		on-Compi	iant Items			
	Certif	cation of Compliance	;				num of 4 hours for work						
		the above statements are vered by this report has			if inspe	ector is called to a proje	ct and no work is perfor	med a 2 hour minimu	ım charge w	ill be applied			
		ations and all applicable co					A	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	~ .				
Inspectors Name		GORDON LE	WIS		Appr	oved Authorized by	y — Xle	OJEC SPPERINTE		<u> </u>			
Inspectors Signatu	ire Do	don Le	wis						V				
Inspectors License	÷#	5009669	-48		Submitted by								
				ACCO	UNTING			少 中 I	ITN	HEL			



3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 ● 714/556-5868

INSPECTOR CODE		JOB NUMBER	05-1425		DATE	September 2	25, 2006	M T	1 1					
JOB NAME University of California of Riverside C.H.A.S.S.						BUILD PERMIT NUMBER / DSA / OSHPD APP FILE# Riverside								
						GENERAL CONTRACTOR S.J. Amoroso								
ARCHITECT Leo Daily		ENGINEER Sa		SUBCONTRACTOR (If Any) Pacific Coast Steel										
REQUIREMENTS: Lir identified. Communica	nit of one job nu	ımber one permit	number per she	et. Identify a	ll work b	y type and SPECI	IC location. Non-	compliar	nt work r	nust be specificall				
building and permit gra			evious non-com			stea. Necola colla	ersauons and con			- project dealgnere				
DEOU! AND	· · · · · · · · · · · · · · · · · · ·		···		URS		TIME IN	 		ME OUT				
REGULAR 1.5X 2X TIME IN 8 7:00 AM										:00 PM				
		··,	C7 Show-U	In Only		1	☐ Expen:	L ses						
							· ·		ant Mass	nry				
Reinforcement Co		Administration	oncrete Placeme				I∆I Neii ☐ Other		ont wasc	,				
Quality Control _	⊔	Administration	لبا	INSPE										
STARTED @:	1	st TRUCK BATC	HFD:	HASPE		HOD OF PLACEM	ENT:							
				7.51.0.4.01	JEAD 14	ALL ODID LINE	D / A E E DED D	ETAIL	C / S E					
OBSERVATION COMPLETED R														
			JIVIN #CS 10 LE	VEL 3 TO I	NOOF C	IND LINE D-0.2	O#O VLICTION	LOI LI	COOM	ALIL				
COLUMN SCHE	***********		INC & CHEAD	WALLE @	i EVEI	2-3 CRID I INES	17 0_23 / LY_P)	PER	CONC	RETE				
COLUMN SCHE														
ACCEPTABLE,	DOLL DL IAI	C 17 3-300 & 31	ILAN VVALL O	OHLDOLL	0.11 0.0.	30 Q O 30 1, 7 B C	<u> </u>	<u> </u>						
OBSERVATION	OF REINFOR	CEMENT PLAC	CEMENT & C.I	M.U. PLACE	MENT	@ ELEVATOR 1	&2. COMPLETE	D 18 C	OURSE	S				
CLEANOUTS E														
ON CENTER &														
10 &11 / S-600.										···				
REBAR SAMPL	ES WERE PIC	KED UP FOR T	ESTING / 4 S	ETS OF 21	NCLUD	ED WERE MILL	CERTS. & DAT	A SHEE	т					
				SAM	PLES									
SUPPLIER:			. ,											
MIXED NO	TICKET#	DESIGN SLUMP	MEASURED SLUMP	ADMIXT	TURE	DESIGN PSI	CUBIC YARDS	SPEC	IMENS	TEMPERATURE AMB CONC.				
		-			DED	ORT Contain	ıs							
Additional Page (I	Page #) CM				KEP	Does N	ot Contain		No	on-Compliant Item				
Additional Page (I		on of Compliance		·	<u> </u>	X Does N	ot Contain	 	<u></u>	· · · · · · · · · · · · · · · · · · ·				
I declare under penalty of pe	Certification	by this report has I	true and the of my open performed and	own personal d installed in	All insp	Does Note that the projections based on minimal projector is called to a projector is called to	num of 4 hours for work		i over 4 ho	urs = 8 hours minimum				
I declare under penalty of pe knowledge the work during compliance with the approved	Certification	above statements are by this report has I	true and the of my opeen performed and les	own personal d installed in	All insp	X Does N	num of 4 hours for work	med a 2 h	d over 4 ho	ours = 8 hours minimum m charge will be applie				
I declare under penalty of pe knowledge the work during compliance with the approved Inspectors Name	Certification	above statements are by this report has I and all applicable cod	true and the of my opeen performed and les	own personal d installed in	All insp	Example Does Note that the local projector is called to a projector is	num of 4 hours for work		d over 4 ho	ours = 8 hours minimum m charge will be applie				
I declare under penalty of pe knowledge the work during compliance with the approved	Certification	above statements are by this report has I and all applicable cod	true and the of my open performed and les	own personal d installed in	All insperies in the second se	Example Does Note that the local projector is called to a projector is	num of 4 hours for work	med a 2 h	d over 4 ho	ours = 8 hours minimum m charge will be applie				



TESTING ENGINEERS

3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 ● 714/556-5868

INSPECTOR CODE		JOB NUMBER	05-142	5	DATE	September 2	6, 2006	M x W					
JOB NAME University of California of Riverside C.H.A.S.S.						BUILD PERMIT NUMBER / DSA / OSHPD APP FILE# Riverside							
ADDRESS	nyon Crest Dr.		CITY Riverside	GENERAL CONTRACTOR S.J. Amoroso									
ARCHITECT Leo D	aily	ENGINEER Sa	iful/Bouquet	SUBCONTRACTOR (If Any) Pacific Coast Steel									
REQUIREMENTS: identified. Commu building and permit	nication (RFI Ske	number one permit etch, etc.) voiding pro y officials.	number per sh evious non-con	npliant items n	nust be li	y type and SPECIF sted. Record conv	FIC location. Non- ersations and con	-compliant work nmunications wi	must be specificall th project designers				
					URS	····	TIME IN		TIME OUT				
REGUL 8	AR	1.5X			2X		7:00 AM		2:00 PM				
			C Show	Un Only			☐ Exper	nses					
	4.0							inforcement Mas	ennry				
	t Concrete	Administration	oncrete Placem			Masonry	لخنا		ELDING				
Quality Contro	ol	Autimisuadon_		INSPE			_ 🖺 0						
STARTED @:		1st TRUCK BATC	HED:			HOD OF PLACEM	ENT:						
OBSERVAT	ON OF 6" C.M	U. PLACEMENT	REINFORC	EMENT PLA	CEMEN	IT @ LEVEL 2 G	RID LINE A / 8.	1-10, PLACED	2				
		ARAPET WALL W											
		E GRID LINE 9.5-A											
		ING 3", 4" & 6" CH					SOUTH BUILD	ING GRID LIN	E 1.8-A.4.				
		JAL 1/8 6010, WE											
WELDING C	N GOING.												
				<u> </u>									
									p				
				SAM	PLES								
SUPPLIER:		ORCO PRE M	IXED MORTA	NR .									
MIXED NO	TICKET#	DESIGN SLUMP	MEASURED SLUMP	ADMIX	TURE	DESIGN PSI	CUBIC YARDS	SPECIMENS	AMB CONC.				
TYPE S								3	<u> </u>				
					. , ,				<u> </u>				
					,		l						
Additional Pa	ge (Page #) CM				REP	ORT Contair Does N	ns Iot Contain	N	lon-Compliant Item				
knowledge the work di	of perjury that all of turing the period cov	cation of Compliance the above statements are ered by this report has tions and all applicable cou	true and the of my	y own personal and installed in	All ins	pections based on minir ector is called to a proje	rum of 4 hours for wor ct and no work is perfo	rk performed over 4 l ormed a 2 hour minin	nours = 8 hours minimum num charge will be applie				
Inspectors Name		GORDON LE	WIS		Аррг	oved Authorized by	v	14×	1				
Inspectors Signatu	re Do	rdon I	eurs					(PROJECT SUPERINT	ENDENT)				
Inspectors License	#	5009669-85 / 5	5009669-84		Subr	nitted by	····		TEL CESTAL				
-				ACCO	Unting			ノ円					



3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

INSPECTOR CODE		JOB NUMBE	R 05-14	125	DATE	Senter	nber 27, 2006	М	T W	T	F	\$ S		
JOB NAME Univer							BUILD PERMIT NUMBER / DSA / OSHPD APP FILE#							
ADDRESS	anyon Crest Dr.	GENERAL CONTRACTOR S.J. Amoroso												
ARCHITECT	Daily	ENGINEER	Riversional Riversion Rive	 	SUBCO	NTRACTOR (Steel						
REQUIREMENTS	: Limit of one jo	ob number one permi	t number per :	sheet. Identify a			PECIFIC location. No	on-comp						
building and perm			revious non-co	mpliant items	must be	listed. Record	I conversations and co	ommuni	ications w	rith proj	ject d	esigners,		
				НО	URS									
REGU 8		1.5X		TIME IN 6:00 AM			TIME (NE OUT						
			Show	v-Up Only				enses		2.00				
☐ Reinforceme	nt Concrete	ПС	oncrete Place						ement Ma	SORRY				
Quality Cont		Administration		Prestress			ソ 口 ' ' 			VELDIN	 VG			
				INSPE				·						
STARTED @:		1st TRUCK BATC	HED:	INOPE		HOD OF PLA	ACEMENT:							
														
							RIMETER OF ELEV							
USED ELEC	CTRIC VIBRAT	OR FOR CONSOL	IDATION, PI	LACED APPR	OXIMA	TELY 8 CU.	YDS. RANCHO RE	ADY N	IIX CON	CRET	<u>E, </u>			
MIX #CHJ0	5404, 2500 PS	I. MADE 1SET OF	4 SAMPLES	·			· · · · · · · · · · · · · · · · · · ·							
PLACED CI	MU@GRIDLI	NE 3.6 / J.5-K, CO	MPLETED TO	о воттом с	OF 2ND	FLOOR, 8"	CMU WITH #4 @	16" ON	CENTE	R EAC	<u>W HC</u>	/AY		
PER DETAI	L 10 / S-600. II	N PROCESS OF P	LACING CMI	U @ OUTER	PRIME	TER ELEVA	TOR 1&2 .							
OBSERVAT	ION OF WELL	DING 6" HOT WAT	ER PIPE @ E	BASEMENT S	HTUOS	BUILDING (SRID LINE 1.5-A.5,							
PROCESS -	S.M.A.W. MAI	NUAL 1/8 6010, SI	IGLE BEVEL	GROOVE W	/ELD A	CCEPTABLE								
WELDER J	OSE -CERTS (ON FILE, WELDING	ON GOING	<u>). </u>			 							
									 	· · · · · · · · · · · · · · · · · · ·				
														
				SAM	PLES	;								
SUPPLIER:		RANCHO REAL	DY MIX					<u></u>		.,				
MIXED NO	TICKET#	DESIGN SLUMP	MEASUREI SLUMP	D ADMIX	TURE	DESIGN F	SI CUBIC YARDS	SP	PECIMENS			ATURE		
CHJ05404	2305204	9	10	GROU'	T AID	2500	8		4		70	70		
			······································							7				
								\top		1				
Additional Pa	ge (Page #) CM				REP	ORT 🖳	ontains oes Not Contain		<u> </u>	lon-Co	mplia	nt Items		
	Certifi	cation of Compliance												
knowledge the work du	of perjury that all of aring the period cov	the above statements are vered by this report has l tions and all applicable coo	true and the of m				n minimum of 4 hours for wo a project and no work is perf							
Inspectors Name	Inspectors Name GORDON LEWIS						red by	لمكر	Des					
Inspectors Signatu	re Doz	don Der	và.					(PROJEC	SUPERINT	EVDENT				
Inspectors License	#	5009669-84 / 50	009669-85		Submitted by									
				ACCOL	JNTING	<u> </u>			<u>a.</u> 1	ch!		4EI		



3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 ●714/556-5868

INSPECTOR COD	<u> </u>	JOB NUMBER	05-14	125	DATE	Septe	mber 28, 2	006	М	T W	Ţ	F	S	S
JOB NAME Univer					BUILD PERMIT NUMBER / DSA / OSHPD APP FILE# Riverside								\dashv	
ADDRESS 3615 (GENERAL CONTRACTOR S.J. Amoroso									_				
ARCHITECT	Daily	TENCINEED		SUBCONTRACTOR (If Any) Pacific Coast Steel										
REQUIREMENT	S: Limit of one jo	b number one permit	aiful/Bouquet number per	sheet. Identify	all work I	oy type and \$	SPECIFIC I	ocation. No	n-com	pliant wo	rk mus	st be sp	ecific	cally
identified. Comm building and pern	unication (RFI S nit granting autho	ketch, etc.) voiding pr rity officials.	evious non-co	ompliant items	must be	listed. Recor	d conversa	tions and co	mmui	nications	with p	oject d	esign	iers,
				НО	URS					,				
REGULAR 1.5X 2X TIME IN TIME OU 8 6:00 AM 2:00 PM											···			
<u> </u>) 			<u> </u>			6:0	U AM			2;00	PM		
			☐ Show	v-Up Only				Expe	nses					
Reinforceme	ent Concrete	x Co	oncrete Place	ment		x Masor	1ry	_ IX R	einford	ement M	asonry	′		
Quality Con	rol lor	Administration		Prestress	s/Post Te	nsion		☐ Othe	r					
				INSPE	CTIC	N								
STARTED @:		1st TRUCK BATC	HED:		MET	HOD OF PL	ACEMENT	:						
OBSERVA	TION OF CON	CRETE PLACEMEN	NT @ COLU	MNS & SHEA	R WAL	LS LEVEL :	2-3 NORT	H BUIDING	3, CC	LUMNS	GRIE)		
		-18, PX-18.5, NX-18												
		-23, SHEAR WALL						•		•				
		N'S 5000 PSI CONC												
	-	R CONCRETE PLA											·	
		ING 8" CMU'S @ P		OF FLEVATO	NR 182	CMU'S UE	P TO 2ND	FLOOR						
		@ 8" ON CENTER							DETA	UI 1/9	004			\dashv
		S = 30" PER DETAI						FFLANS	DEIF	UL 173	004			\neg
LA 0 40 D/	at Dirant I Lite	5 - 50 FERDETAL	L 2 / 3-004.	CINIO FLACE	INICIAL	JN GOING.	·	····						ᅱ
<u> </u>														\dashv
														\dashv
					. , .									
				MAS	PLES									
SUPPLIER:		ROBERTSON'S		OAW	LLO	'				· · · · · ·				\neg
MIXED NO	TICKET#	DESIGN SLUMP	MEASURE	D ADMIX	TURE	DESIGN F	PSI CL	IBIC YARDS	s	PECIMEN	s I T	EMPER		
44243	4584233	4	SLUMP 4 1/2			5000		10	+-	4		AMB (20NC 80	;.
							- 		+-		-			-
			·					· · · · · · · · · · · · · · · · · · ·	+		\dashv			\dashv
	·	<u> </u>	· · · · · · · · · · · · · · · · · · ·				ontains							
Additional Pa	ge (Page #) CM				REP	ORT	ontains oes Not Co	ntain			Non-C	omplia	nt Ite	ms
	Certific	cation of Compliance			All inst	pections based o	on minimum of	4 hours for wo	k perfo	med over 4	hours =	8 hours	minim	um
declare under penalty knowledge the work d	of perjury that all of uring the period cov	the above statements are t ered by this report has b	rue and the of m	y own personal		ector is called to								
		tions and all applicable code					`	7			_	/		
Inspectors Name		GORDON LEV	NIS		Аррп	oved Authoria	zed by	1	(PRO IE	CT SUPERIN			, .	
Inspectors Signatu	re <i>Do</i>	rdon I	ewis						(rrwe	OI SUPERIN	ANDEN	'')		
Inspectors License	#	5009669-	-48		Submitted by									
				ACCOL	JNTING					A	***	THE	D	7
										# C 1 1	B	20 11 12	_ F %	# F 3-



3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 ● 714/556-5868

INSPECTOR CODE		LIOPAULUEE			IOATE	-		TMITIWI	TIFICICI		
INSPECTOR CODE	<u>. </u>	JOB NUMBER	05-1425		DATE	<u>-</u>	mber 29, 2006		T F S S		
JOB NAME Univers	sity of California o	of Riverside C.I	I.A.S.S.		BUILD PERMIT NUMBER / DSA / OSHPD APP FILE# Riversic						
ADDRESS 3615 C	anyon Crest Dr.		CITY Riverside	GENERAL CONTRACTOR S.J. Amoroso							
ARCHITECT	Daily	ENGINEER	aiful/Bouquet	SUBCO	NTRACTOR (If Any) Pacific Coast	Steel				
				at Identify:	all work	ny type and S	SPECIFIC location. No		must be specifically		
identified. Comm	unication (RFI Sk	etch, etc.) voiding pr					d conversations and o				
building and perm	it granting authori	ity officials.									
				URS							
REGU		1.5X		2X		TIME IN		TIME OUT			
8							700: AM		200:PM		
			Show-Up	Only				enses			
Reinforceme	nt Concrete	C	oncrete Placemen	nt		X Mason	nry X F	Reinforcement Ma	sonry		
Quality Cont	rol [Administration		Prestress	s/Post Te	nsion	X Oth	er V	ELDING		
-		_		INSPE	CTIC)NI					
STARTED @:		1st TRUCK BATC	HED:	IIIOI L		HOD OF PL	ACEMENT:				
						,					
OBSERVAT	ION OF PLACE	NG 8" CMU'S @ P	ERIMETER OF	ELEVATO	OR 1&2	, 5 COURC	ES ABOVE 2ND FL	OOR , REINFO	RCEMENT #5		
10 "8 <u>@ [V]</u>	I CENTER & #5	[H] @ 16" ON CE	NTER, ADDED	2 #5 FOR	EMBE	SEPARAT	OR TUBE PER DE	TAIL 4 / S-005,			
ADDED 2#	5 FOR BRICK \	/ENEER SUPPOF	T @ LEVEL 2 F	PER DETA	AL7/S	-004. CMU	PLACEMENT ON C	OING.			
OBSERVAT	ION OF WELD	ING 3" 4" & 6" HO	T WATER & CH	IILL WATE	ER PIPE	@ LEVEL	1 CEILING.				
PROCESS	S.M.A.W. MAN	UAL 1/8 6010 , US	ING SINGLE BE	VEL GRO	OVE W	/ELDS & FII	LLET WELDS ACC	EPTABLE.			
WELDER -	JOSE - CERTS	ON FILE, WELDIN	NG ONGOING.								
				IC CENT	TOLAR	EOD TEST	INC				
KECEIVED	KEDAK SAMPI	LES @ MILL CERT	S, II ENIS DEIN	IG SENT	I U LAD	FUR IEST	ING.				
		<u> </u>									
		·····			·	· · · · · · · · · · · · · · · · · · ·					
											
				SAM	PLES	;					
SUPPLIER:											
MIXED NO	TICKET#	DESIGN SLUMP	MEASURED	ADMIX	TURE	DESIGN F	PSI CUBIC YARD	S SPECIMENS	TEMPERATURE AMB CONC.		
	 		SLUMP	 	· · · · · · · · · · · · · · · · · · ·				AIVIB COINC.		
		 		-							
	· · · · · · · · · · · · · · · · · · ·		 								
				<u> </u>							
Additional Pa	ge (Page #) CM				REP	ORT	Contains Ooes Not Contain	N	on-Compliant Items		
	Cortific	ation of Compliance			-	- تع					
		•					on minimum of 4 hours for w a project and no work is per				
knowledge the work di	uring the period cove	he above statements are ered by this report has to ions and all applicable cod	peen performed and i		li ilisp	ector is called to	a project and no work is per	torned a 2 rout minim	uni ci large will be applied		
Inspectors Name	. even prante optimicali	GORDON LEV			Ann	oved Authori	yed by		- ->		
•	•	/ J	/VIO		Appi	OACO VORION	zed by	(PROJECT SUPERINT)	NDENT)		
Inspectors Signatu	re Doz	don de	wa					medell			
Inspectors License	#	5009669-84 / 50	009669-85		Submitted by						
				ACCO	UNTING						



PROJECT NAME:		UCR- Chass Bui	lding		JOB NO:	05-1425
PROJECT ADDRE	ESS:	3615 Canyon Cı	rest Drive, Riverside, C	A 92507	LAB NO:	4484
CLIENT NAME: CLIENT ADDRES	S:	S.J. Amoroso Co 275 East Baker S Costa Mesa, CA				
SPECIMEN TYPE		Concrete	-			
LOCATION IN S	TRUCTURE:		Deck pour; Grid line	F.5-1.5		
MIX NO:	CHJ05372	_ MEA	SURED SLUMP (in):	4	SPEC'D PSI:	5000
AIR CONTENT:	N/A		AMBIENT TEMP:	66	CONCRETE TEMP:	80
SUPPLIER:	Robertson's		DIAMETER (in):	6	AREA (sq. in.):	28.28
DATE CAST:	8/23/2006	TIME CAST	7:06 A.M.	CAST BY:	G.Branstter	.CO.: <u>RTE</u>
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE
1	7	8/30/2006	124,810		D	
2	28	9/20/2006	157,590	5,572	С	
3	28	9/20/2006	157,020	5,552	C	
4	Hold					
						5,562
*	Compressio ASTM C31,	n test results w C39, C143, C17	3), CONE & SHEAR (or ere satisfactory and 2, C1231 & C1064. ere not satisfactory	conform to the	• •	



PROJECT NAME:		UCR- Chass Bui	lding		JOB NO:	05-1425
PROJECT ADDRE	SS:	3615 Canyon Cr	est Drive, Riverside, C	A 92507	LAB NO:	4485
CLIENT NAME: CLIENT ADDRES	S:	S.J. Amoroso Co 275 East Baker S Costa Mesa, CA				
SPECIMEN TYPE:	:	Concrete	-			
LOCATION IN S	TRUCTURE:		Deck pour; Grid line l	H.7-1.5		
MIX NO:	CHJ05372	MEA	SURED SLUMP (in):	4	SPEC'D PSI:	5000
AIR CONTENT:	N/A	-	AMBIENT TEMP:	_64	CONCRETE TEMP:	80
SUPPLIER:	Robertson's		DIAMETER (in):	6	AREA (sq. in.):	28.28
DATE CAST:	8/23/2006	TIME CAST	5:39 A.M.	CAST BY:	G.Bransteter	CO.: RTE
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE
1	7	8/30/2006	118,160	4,178	D	
2	28	9/20/2006	149,120	5,273	С	
3	28	9/20/2006	147,620	5,220	D	
4	Hold					
						5,246
*	Compressio ASTM C31,	n test results w C39, C143, C17 n test results w	or in the state of	conform to the		

INSPECTION MATERIALS TESTING GEOTECHNICAL



PROJECT NAME:		UCR- Chass Buildi	ing		JOB NO:	05-1425
PROJECT ADDRE	ESS:	3615 Canyon Cres	st Drive, Riverside, CA	92507	LAB NO:	4490
CLIENT NAME: CLIENT ADDRES:	S:	S.J. Amoroso Cons 275 East Baker Str Costa Mesa, CA 9	eet, Suite B			
SPECIMEN TYPE:	:	Non Skrink Grout				
LOCATION IN ST	TRUCTURE:		8" below beam; Grid	line G-3		
MIX NO:	Master flow 928	MEA	SURED SLUMP (in):	N/A	SPEC'D PSI:	5000
AIR CONTENT:	N/A		AMBIENT TEMP:	90	CONCRETE TEMP:	N/A
SUPPLIER:	Master flow		CUBE(in):	2	AREA (sq. in.):	4
DATE CAST:	8/23/2006	TIME CAST	12:00 P.M.	CAST BY:	G.Lewis	CO.: RTE
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE
1	7	8/30/2006	22,270	5,568	N/A	
2	28	9/20/2006	38,340	9,585	N/A	
. 3	28	9/20/2006	43,590	10,898	N/A	
						10,241
*	• •	test results were	CONE & SHEAR (C), s satisfactory and cor	nform to the spe	cifications of	
	Compression	test results were	not satisfactory	SCONJA'	SSICNAL TO GOLDEN	
	REMARKS:			No. C	051523 -30-08	
			AMM			
		Dr. Sanjay Govil	, P.E. License Numb	er 51523	CALIFO	





PROJECT NAM	IE:	UCR- Chass I	Building		JOB NO:	05-1425	-
PROJECT ADD	RESS:	3615 Canyon	Crest Drive, Rivers	ide, CA 92507	LAB NO:	4608	-
CLIENT NAME: CLIENT ADDRE		275 East Bake	Construction Co., I er Street, Suite B CA 92626-4504	nc			
SPECIMEN TYP	PE:	Concrete					
LOCATION IN S	STRUCTURI	Ē:	Deck pour; Grid lin	ne L.5-12.5			-
MIX NO:	CHJ05372	MEASU	IRED SLUMP (in):	5	SPEC'D PSI:	5000	<u> </u>
AIR CONTENT:	N/A	_	AMBIENT TEMP:	72	CONCRETE TEMP:	80	<u>'</u>
SUPPLIER:	Robertson's		DIAMETER (in):	6	AREA (sq. in.):	28.28	_
DATE CAST:	9/6/2006	TIME CAST	4:38 A.M.	CAST BY:	G.Branstetter	CO.: RTE	
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE	
1	7	9/13/2006	131,760	4,659	D		54
2	28	10/4/2006		0]
3	28	10/4/2006		0]
4	Hold						_
						0	<u> </u>
*	Compress ASTM C3	ion test result I, C39, C143, ion test result	s were satisfactor C172, C1231 & 0 s were not satisfa	ry and conform C1064. actory	EAR (D), COLUMNA to the specification		_
		⊟Dr Saniay G	Sovil. P.E. Licens	e numper 515	2 3		

INSPECTION MATERIALS TESTING GEOTECHNICAL





PROJECT NAM	ıF·	UCR- Chass E	Buildina		JOB NO:	05-1425	
			_		-	4600	
PROJECT ADD	RESS:	3615 Canyon	Crest Drive, Riversi	ide, CA 92507	LAB NO:	4609	
CLIENT NAME: CLIENT ADDRE		275 East Bake	Construction Co., It or Street, Suite B CA 92626-4504	nc			
SPECIMEN TYP	PE:	Concrete	•				
LOCATION IN S	STRUCTURI	<u> </u>	Deck pour; Grid lin	ne NX.5-18.7			
MIX NO:	CHJ05372	MEASU	IRED SLUMP (in):	4 1/2	SPEC'D PSI:	5000	
AIR CONTENT:	N/A	-	AMBIENT TEMP:	78	CONCRETE TEMP:	82	
SUPPLIER:	Robertson's	3	DIAMETER (in):	6	AREA (sq. in.):	28.28	
DATE CAST:	9/6/2006	TIME CAST	7:45 A.M.	CAST BY:	G.Branstetter	CO.: RTE	
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE	
1	7	9/13/2006	123,760	4,376	В	54	2
2	28	10/4/2006		0			
3	28	10/4/2006		0			
4	Hold						
			<u> </u>			0	
	Compress ASTM C3	ion test result 1, C39, C143, ion test result	IT (B), CONE & S s were satisfactor C172, C1231 & G s were not satisfa	ry and conform C1064.	EAR (D), COLUMNA to the specification	R (E) ns of .	
		Dr. Saniay C	Povil P.F. Licens	e Number 515	23		





IE:	UCR- Chass E	Building		JOB NO:	05-1425	
RESS:	3615 Canyon	Crest Drive, Rivers	ide, CA 92507	LAB NO:	4610	
	275 East Bake	er Street, Suite B	nc			
PE:	Concrete					
STRUCTURI	E:	Deck pour; Grid lin	ne LX.3-22.9			
CHJ05372	MEASU	IRED SLUMP (in):	4 1/2	SPEC'D PSI:	5000	
: N/A	-	AMBIENT TEMP:	82	CONCRETE TEMP:	82	
Robertson's	S	DIAMETER (in):	6	AREA (sq. in.):	28.28	
9/6/2006	TIME CAST	10:00 A.M.	CAST BY:	G.Branstetter	CO.: RTE	
SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE	
7	9/13/2006	123,440	4,365	D		56
28	10/4/2006	·				
28	10/4/2006		0			
Hold						1
						<u> </u>
					0	
Compress ASTM C31 Compress	ion test result 1, C39, C143, ion test result	s were satisfactor C172, C1231 & 0 s were not satisfa	ry and conform C1064. actory	to the specification		•
	CHJ05372 N/A Robertson's 9/6/2006 SAMPLE AGE 7 28 28 Hold CONE (A) Compress ASTM C3 Compress	S.J. Amoroso 275 East Bake Costa Mesa, G PE: Concrete STRUCTURE: CHJ05372 MEASU N/A Robertson's 9/6/2006 TIME CAST SAMPLE AGE 7 9/13/2006 28 10/4/2006 28 10/4/2006 Hold CONE (A), CONE & SPL Compression test result ASTM C31, C39, C143, Compression test result REMARKS:	S.J. Amoroso Construction Co., I SS: 275 East Baker Street, Suite B Costa Mesa, CA 92626-4504 PE: Concrete STRUCTURE: Deck pour; Grid lin CHJ05372 MEASURED SLUMP (in): N/A AMBIENT TEMP: Pi6/2006 TIME CAST 10:00 A.M. SAMPLE AGE TEST DATE MAXIMUM LOAD (lbf) 7 9/13/2006 123,440 28 10/4/2006 28 10/4/2006 Hold CONE (A), CONE & SPLIT (B), CONE & S Compression test results were satisfacto ASTM C31, C39, C143, C172, C1231 & C Compression test results were not satisfare REMARKS:	### STRUCTURE: Deck pour; Grid line LX.3-22.9 CHJ05372	### RESS: 3615 Canyon Crest Drive, Riverside, CA 92507 LAB NO: S.J. Amoroso Construction Co., Inc	S.J. Amoroso Construction Co., Inc S.J. Amoroso Construction Co., Inc 275 East Baker Street, Suite B Costa Mesa, CA 92626-4504





PROJECT NAM	IE:	UCR- Chass E	Building		JOB NO:	05-1425	
PROJECT ADD	RESS:	3615 Canyon	Crest Drive, Rivers	ide, CA 92507	LAB NO:	4611	•
CLIENT NAME: CLIENT ADDRE		275 East Bake	Construction Co., I er Street, Suite B CA 92626-4504	nc			
SPECIMEN TY	PE:	Concrete					
LOCATION IN	STRUCTURI	Ξ:	Deck pour; Grid lir	ne M-16.5			•
MIX NO:	CHJ05372	MEASU	IRED SLUMP (in):	5	SPEC'D PSI:	5000	-
AIR CONTENT:	N/A		AMBIENT TEMP:	68	CONCRETE TEMP:	80	
SUPPLIER:	Robertson's	<u> </u>	DIAMETER (in):	6	AREA (sq. in.):	28.28	-
DATE CAST:	9/6/2006	TIME CAST	5:55 A.M.	CAST BY:	G.Branstetter	co.: RTE	
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE	
1	7	9/13/2006	118,750	4,199	C		156
2	28	10/4/2006		0]
3	28	10/4/2006		0		 	4
4	Hold						
					l	0	j
*	Compress ASTM C3	ion test result I, C39, C143, ion test result	s were satisfacto C172, C1231 & 0 s were not satisfa	ry and conform C1064. actory	EAR (D), COLUMNA to the specification		
		Dr. Sanjay G	Bovil, P.E. Licens	e Number 515	23		





PROJECT NAME:		UCR- Chass Bui	lding		JOB NO:	05-1425
PROJECT ADDRE	ESS:	3615 Canyon C	rest Drive, Riverside, C	CA 92507	LAB NO:	4636
CLIENT NAME: CLIENT ADDRES	S:	S.J. Amoroso Co 275 East Baker S Costa Mesa, CA				
SPECIMEN TYPE	:	Concrete	_			
LOCATION IN S	TRUCTURE:		Shear wall; top lift; g	rid line G - 3		
MIX NO:	44243	MEA	SURED SLUMP (in):	4.5	SPEC'D PSI:	5000
AIR CONTENT:	N/A	_	AMBIENT TEMP:	62	CONCRETE TEMP:	68
SUPPLIER:	Robertsons		_DIAMETER (in):	6	AREA (sq. in.):	28.28
DATE CAST:	9/11/2006	TIME CAST	8:06am	CAST BY:	G. Lewis	.CO.: <u>RTE</u>
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE
1	7	9/18/2006	118,470		D	-
2	28	10/9/2006		0		
3	28	10/9/2006		0		
4	Hold					
**************************************				-		
						0
*	Compressio ASTM C31,	n test results w C39, C143, C17	B), CONE & SHEAR (vere satisfactory and v2, C1231 & C1064. vere not satisfactory	l conform to the		
		Dr. Sanjay Go	vil, P.E. License Nun	nber 51523	-	







PROJECT NAME:		UCR- Chass Bui	lding		JOB NO:	05-1425	
PROJECT ADDRE	ESS:	3615 Canyon Cı	est Drive, Riverside, C	A 92507	LAB NO:	4687	
CLIENT NAME: CLIENT ADDRES	S:	S.J. Amoroso Co 275 East Baker S Costa Mesa, CA					
SPECIMEN TYPE	:	Concrete					
LOCATION IN S	TRUCTURE:		Level # 3; south bldg	grids D.2 / 3.5			
MIX NO:	CHJ05372	MEA	SURED SLUMP (in):	4.5	SPEC'D PSI:	5000	
AIR CONTENT:	N/A	_	AMBIENT TEMP:	62	CONCRETE TEMP:	78	-
SUPPLIER:	Robertsons		DIAMETER (in):	6	AREA (sq. in.):	28.28	-
DATE CAST:	9/15/2006	TIME CAST	5:18am	CAST BY:	G. Branstetter	CO.: RTE	
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE	
1	7	9/22/2006	129,170		В		56
2	28	10/13/2006		0]
3	28	10/13/2006		0]
4	Hold						1
							 1
		<u> </u>				0	ij
*	CONF (A).	CONE & SPLIT (F	3), CONE & SHEAR (C), SHEAR (D), C	OLUMNAR (E)		
	• •	•	ere satisfactory and				
<u></u>	•		2, C1231 & C1064.		- p		
	-		rere not satisfactory				
	•		·				
	REMARKS:						
		Dr. Saniay Gov	vil, P.E. License Nun	nber 51523	-		

INSPECTION MATERIALS TESTING GEOTECHNICAL





PROJECT NAME:		UCR- Chass Bui	lding		JOB NO:	05-1425
			rest Drive, Riverside, C		LAB NO:	4688
PROJECT ADDRI	E33:	3615 Canyon Ci	rest Drive, Riverside, Ca	A 92307	LAB NO.	
CLIENT NAME: CLIENT ADDRES	S:	S.J. Amoroso Co 275 East Baker S Costa Mesa, CA	•			
SPECIMEN TYPE	•	Concrete	-			
LOCATION IN S	TRUCTURE:		Level # 3; south bldg;	grids B / 2.6		
MIX NO:	CHJ05372	_ MEA	SURED SLUMP (in):	4.5	SPEC'D PSI:	5000
AIR CONTENT:	N/A	_	AMBIENT TEMP:	60	CONCRETE TEMP:	78
SUPPLIER:	Robertsons		_DIAMETER (in):	6	AREA (sq. in.):	28.28
DATE CAST:	9/15/2006	TIME CAST	7:10am	CAST BY:	G. Branstetter	CO.: RTE
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE
1	7	9/22/2006	121,340	4,291	C	
2	28	10/13/2006		0		
3	28	10/13/2006		0		
4	Hold					
						0
*	CONE (A),	CONE & SPLIT (B), CONE & SHEAR (C), SHEAR (D), C	OLUMNAR (E)	
	Compression	on test results w	vere satisfactory and	conform to the	specifications of	
	•		72, C1231 & C1064.			
			vere not satisfactory			
	REMARKS:					
		Dr. Saniav Go	vil, P.E. License Num	nber 51523	-	





PROJECT NAM	ΛE:	UCR- Chass Build	ling		JOB NO:	05-1425
PROJECT ADD	RESS:	3615 Canyon Cre	st Drive, Riverside, C	CA 92507	LAB NO:	4713
CLIENT NAME CLIENT ADDR		S.J. Amoroso Con 275 East Baker St Costa Mesa, CA 9				
SPECIMEN TY	PE:	Mortar	_			
LOCATION IN	STRUCTURE	·	South bldg.; 1st co	urse;Level 1; Grid I	ine K-4.1	
MIX NO:	Orco	MEAS	URED SLUMP (in):	N/A	SPEC'D PSI:	1800
SUPPLIER:	Orco		_DIAMETER (in):	2	AREA (sq. in.):	3.14
DATE CAST:	9/19/2006	TIME CAST	11:15 A.M.	CAST BY:	G.Lewis	CO.: RTE
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE
1	7	9/26/2006	4,700	1,497	D	55
2	28	10/17/2006		0		1
3	28	10/17/2006		0		
						0
*	Compressio	•), CONE & SHEAR (re satisfactory and			<u> </u>
	Compressio	n test results we	re not satisfactory	•		
	REMARKS:					- -
		Dr. Saniav Govi	I. P.E. License Nur	 nber 51523	-	





PROJECT NAM	۸E:	UCR- Chass Build	ling		JOB NO:	05-1425
PROJECT ADD	RESS:	3615 Canyon Cres	st Drive, Riverside, C	CA 92507	LAB NO:	4737
CLIENT NAME CLIENT ADDR		S.J. Amoroso Con 275 East Baker Str Costa Mesa, CA 9	reet, Suite B			
SPECIMEN TY	PE:	Mortar	-	•		
LOCATION IN	STRUCTURE		1st level; 8th cours	se; grid line J.5 - 4		·
MIX NO:	Type S	MEASI	URED SLUMP (in):	N/A	SPEC'D PSI:	1800
SUPPLIER:	Orco		_DIAMETER (in):	2	AREA (sq. in.):	3.14
DATE CAST:	9/20/2006	TIME CAST	1:30pm	CAST BY:	G. Lewis	CO.: RTE
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE
1	7	9/27/2006	5,090	1,621	D	
2	28	10/18/2006		0		
3	28	10/18/2006		0		
*	Compressio ASTM C109	n test results we , C144, & C1142.	re not satisfactory	l conform to the		<u>-</u>

INSPECTION MATERIALS TESTING GEOTECHNICAL





PROJECT NAM	IE:	UCR- Chass Build	ling	JOB NO:	05-1425			
PROJECT ADD	RESS:	3615 Canyon Cre	st Drive, Riverside, C	A 92507	LAB NO:	4738		
CLIENT NAME: CLIENT ADDRI		S.J. Amoroso Con 275 East Baker St Costa Mesa, CA 9						
SPECIMEN TYP	PE:	Mortar	_					
LOCATION IN	STRUCTURE	:	10th course; Level	1; Grid line J.8-4.1			,	
MIX NO:	Type S	MEAS	URED SLUMP (in):	N/A	SPEC'D PSI:	1800		
SUPPLIER:	Orco		_DIAMETER (in):	2	AREA (sq. in.):	3.14		
DATE CAST:	9/21/2006	TIME CAST	10:00 A.M.	CAST BY:	G.Lewis	CO.: RTE		
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE		
1	7	9/28/2006	5,520	1,758	D		56	
2	28	10/19/2006		0				
3	28	10/19/2006		0				
						0		
*	Compression), CONE & SHEAR (re satisfactory and					
	Compression	n test results we	re not satisfactory	,				
	REMARKS:					-		
		Dr. Saniay Covi	I P.F. License Nun	nher 51523	-	-		

A ENTERED





PROJECT NAME:		UCR- Chass Bui	lding	JOB NO:	05-1425		
PROJECT ADDRESS:		3615 Canyon C	rest Drive, Riverside, C	LAB NO:	4751	-	
CLIENT NAME: CLIENT ADDRESS:		S.J. Amoroso Co 275 East Baker S Costa Mesa, CA					
SPECIMEN TYPE:	:	Concrete	-				
LOCATION IN S	TRUCTURE:		Shear wall; 2nd level;	top lift; Grid line L	-13	<u> </u>	-
MIX NO:	44243	MEA	SURED SLUMP (in):	4 1/2	SPEC'D PSI:	5000	-
AIR CONTENT:	N/A	_	AMBIENT TEMP:	64	CONCRETE TEMP:	64	_
SUPPLIER:	Robertson's		_DIAMETER (in):	66	AREA (sq. in.):	28.28	_
DATE CAST:	9/22/2006	TIME CAST	8:05 A.M.	CAST BY:	G.Lewis	CO.:RTE	
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE	
1	7	9/29/2006	130,310	4,608	D		X
2	28	10/20/2006		0]
3	28	10/20/2006		0]
4	Hold						
							<u> </u>
						0]
*	Compressio ASTM C31,	n test results w C39, C143, C17	B), CONE & SHEAR (vere satisfactory and 22, C1231 & C1064. Vere not satisfactory	conform to the			
		Dr. Saniay Gov	vil PF Ticense Nun	aber 51523			



RECEIVED

SEP 1 5 2006

September 7, 2006

AMOROSO CONSTRUCTION **COSTA MESA**

SJ Amoroso Construction Attn: Keith Speer 275 E. Baker St., Suite B Costa Mesa, CA 92626

Job No.:

05-1425

Project:University of California-Riverside

3615-A Canyon Crest Drive Riverside, CA 92507

Subject:

Concrete F-number measurement

F-Number Measurement Project Summary

Second Floor Deck

Section 1

On September 7, 2006, we performed F-Number measurements on concrete floor elevated deck at the subject project. Testing was performed in accordance with ASTM 1155. The test calculations, graphs, and a floor map are enclosed for your records.

Thank you for choosing Reliant Testing Engineers to service your profiling needs. Please feel free to contact me should you have any questions regarding your F-Number measurement, report, and graphs.

Sincerely,

RELIANT TESTING ENGINEERS, INC.

President

Measured on: 09/07/2006

Job: UCRCHASS S Combined Section S

Surface: 2NDLEVELDECK Section: SECTION01

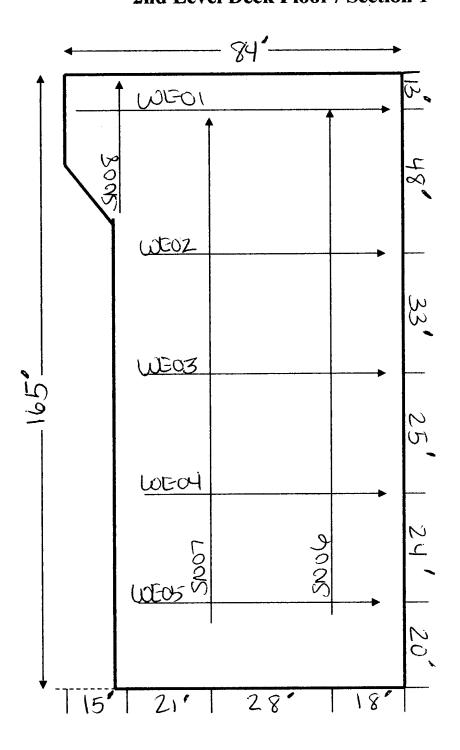
Measured FF: 33.30 < Measured FL: 14.84 <		Specified FF: Specified FL:			
-					
Run Name	FF		FL	Readings	
WE01	30.93	<35.20-26.66>	15.60 <17.91-13.28>	80	
WE02	37.20	<43.20-31.21>	15.94 <18.76-13.12>	60	
WE03	31.75	<36.86-26.63>	12.78 <15.04-10.52>	60	
WE04	36.66	<42.57-30.76>	14.84 <17.47-12.21>	60	
WE05	34.83	<40.44-29.22>	20.25 <23.84-16.67>	60	
SN06		<39.46-32.36>	14.75 < 16.27-13.23>	145	
SN07		<37.06-30.39>	14.08 <15.53-12.63>	145	
SN07 SN08		<28.15-17.69>	14.04 <17.91-10.17>	30	

568 Z-Readings

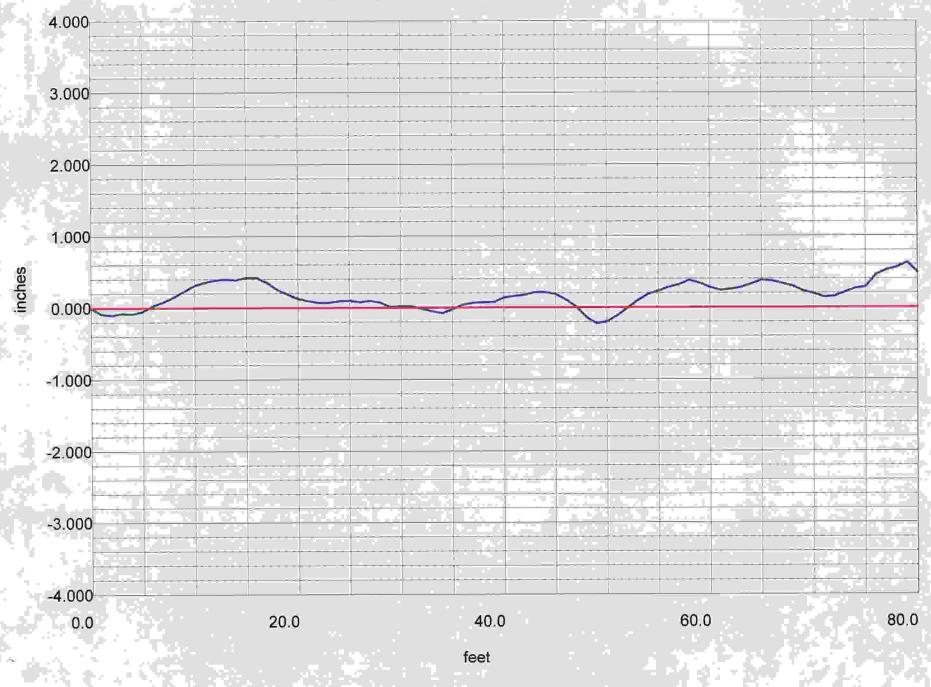
640 Dipstick Readings

Reliant Testing Engineers

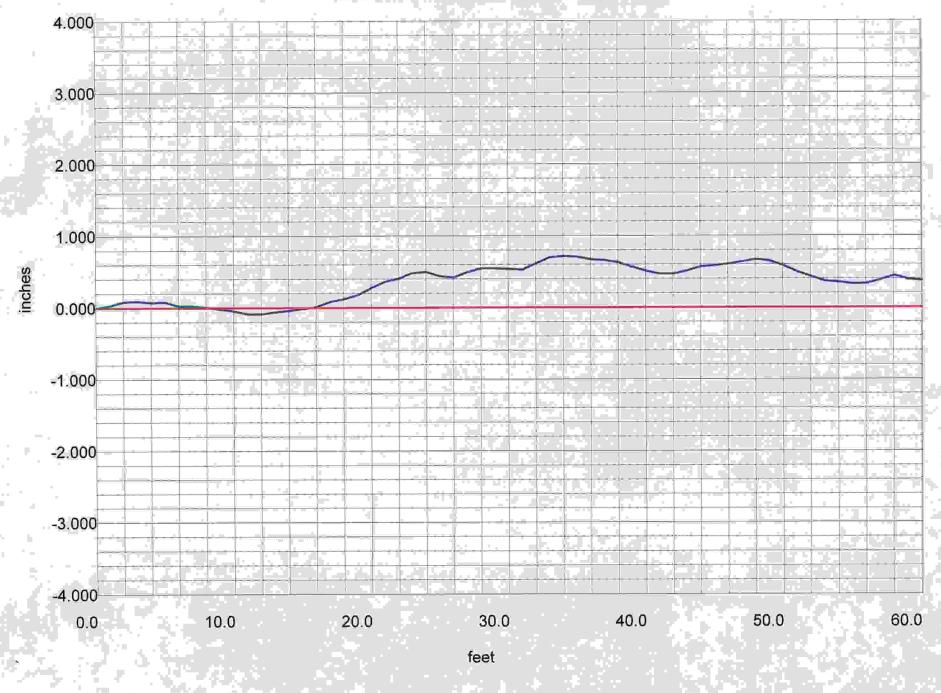
Project: University of California-Riverside CHASS Instruction & Research Facility 3615 A Canyon Crest Drive-Riverside, CA 92507 2nd Level Deck Floor / Section 1



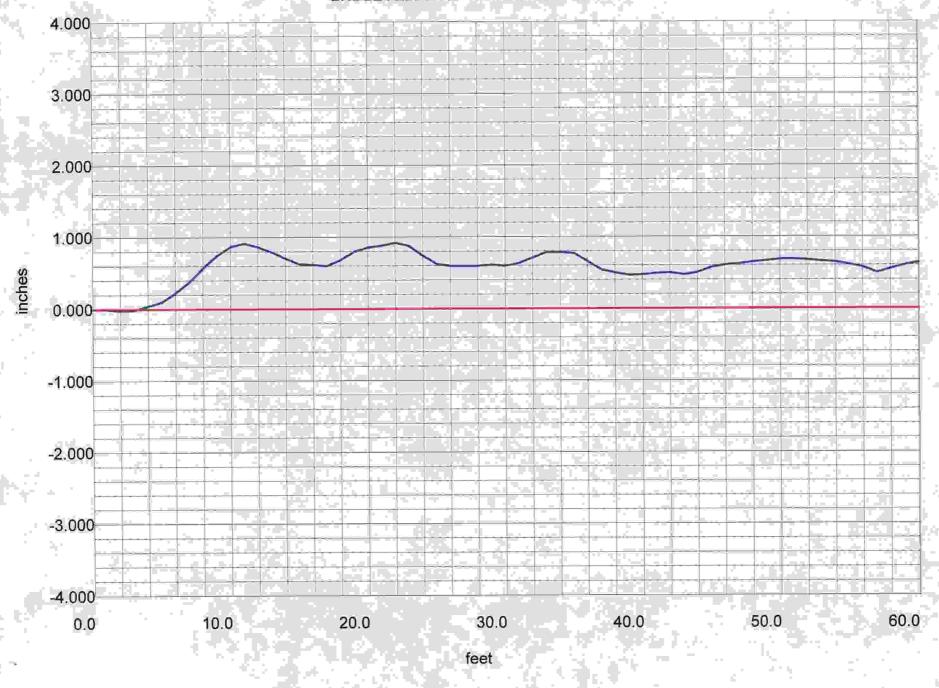
All runs made at least 2' from edge Map not to scale Measured on 09/07/2006



FF = 30.9 <26.7 - 35.2> FL = 15.6 <13.3 - 17.9>

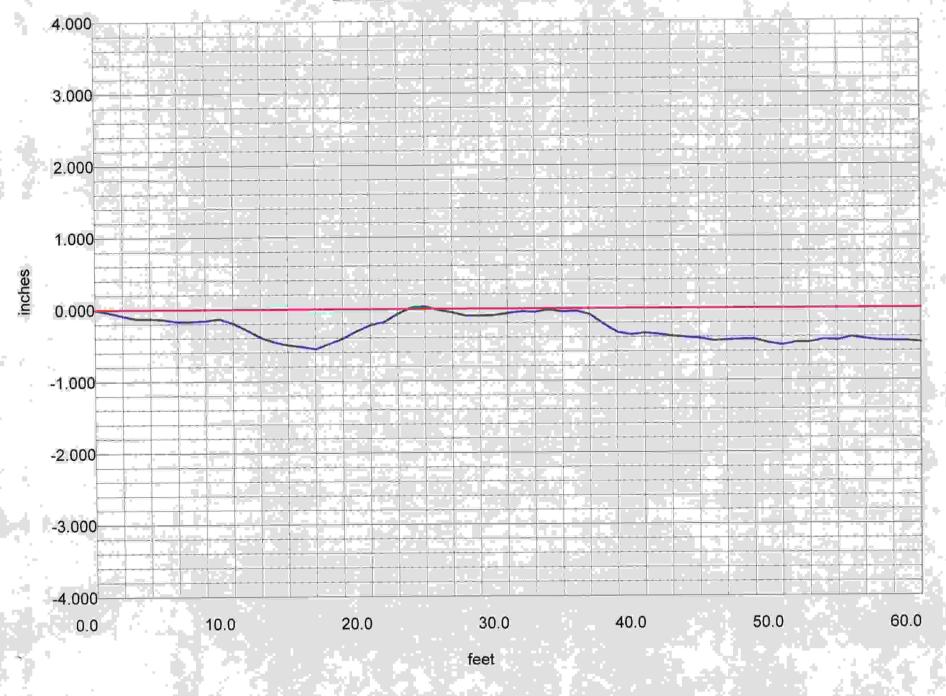


FF = 37.2 <31.2 - 43.2> FL = 15.9 <13.1 - 18.8>

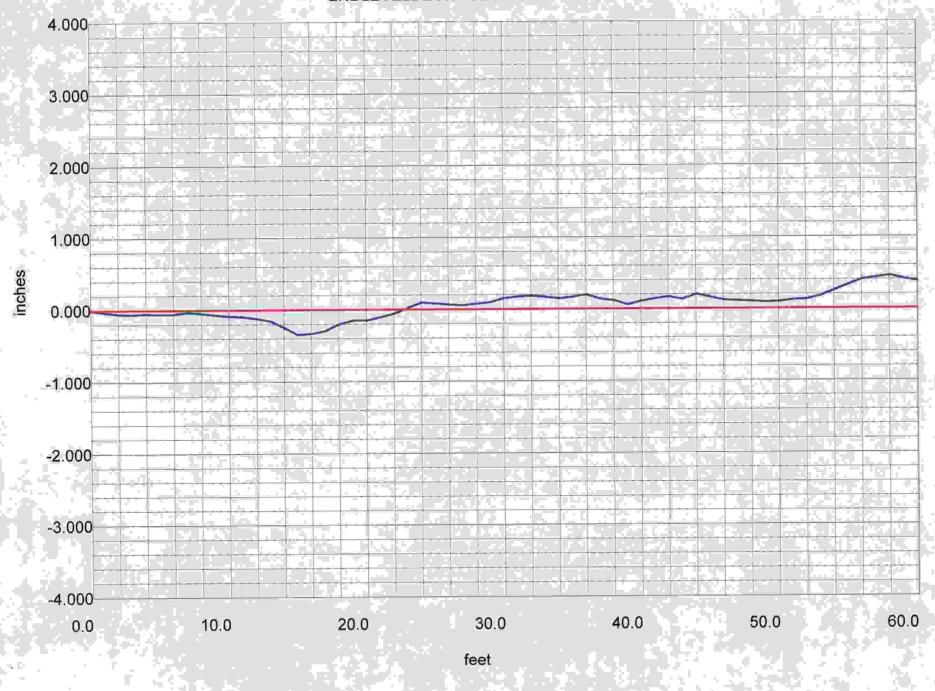


FF = 31.7 <26.6 - 36.9> FL = 12.8 <10.5 - 15.0>

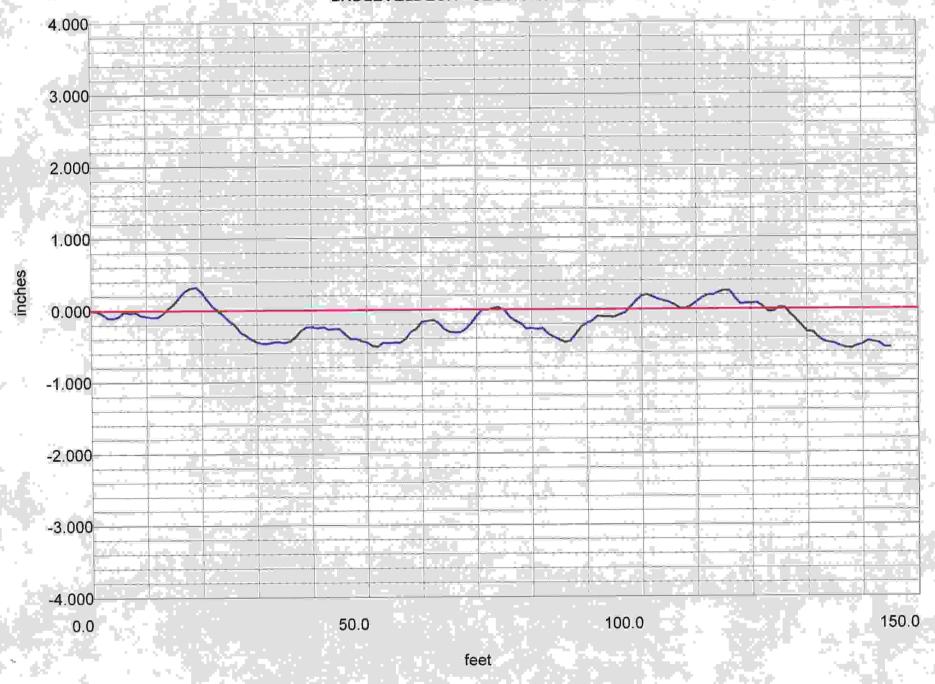
2NDLEVELDECK SECTION01



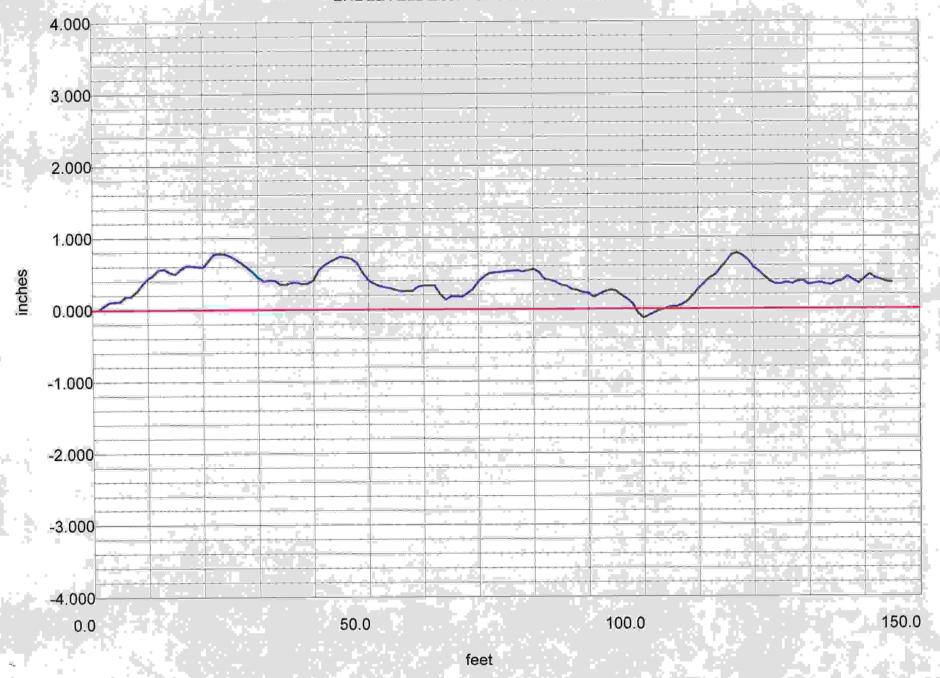
FF = 36.7 <30.8 - 42.6> FL = 14.8 <12.2 - 17.5>



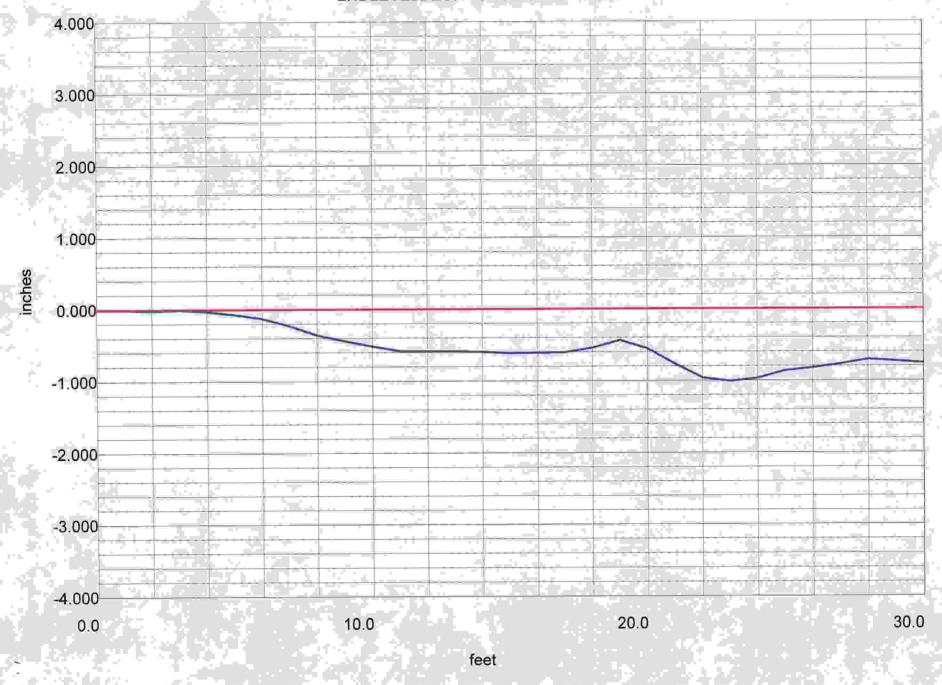
FF = 34.8 <29.2 - 40.4> FL = 20.3 <16.7 - 23.8>



FF = 35.9 <32.4 - 39.5> FL = 14.8 <13.2 - 16.3>



FF = 33.7 <30.4 - 37.1> FL = 14.1 <12.6 - 15.5>



FF = 22.9 <17.7 - 28.2> FL = 14.0 <10.2 - 17.9>





3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

Inspection Report

IESTING EN	GINEEKS			sheem	ווט ווכן	port								
INSPECTOR CODE		JOB NUMBER	142	5	DATE 2-09-06 M T W						T F S			
JOB NAME 1/ C. R					BUILD PERMIT NUMBER / DSA / OSHPD APP. FILE# JURISDICTION									
ADDRESS 3 (15 cup	GENERAL	CONTRACTOR	1 /).			 ~							
ARCHITECT	1) Can	yon Crest ENGINEER Saifu	1/2.	J/UT	SUBCON	CONTRACTOR TRACTOR (If Any)	J. HB	<u>n 0</u>	<u>rosc</u>	<u>/</u>				
specifically ider	TS: Limit of one journition of the property of the communication of the community of the	ob number, one per cation (RFI, Sketch and permit granting	ermit number per , etc.) voiding pr	sheet. Id evious no	dentify all	work by type and	d SPECIFIC I	locati	on. Non-co	ompliar	it work	must inicatio	be ons	
р. ојост дос					URS									
REGU	LAR	1.5X			2X		TIME IN		TIME OU			Т		
4							11:00			2:	00)		
Re-Inspecti	ion		☐ Show-Up	Only _				(pen	ses					
Reinforcem	ent Concrete _	Co	ncrete Placem	ent		Masonry _] Rei	nforceme	ent Ma	sonry	,		
		Administration												
				INSPE	ECTION									
STARTED @	 :	1st TRUCK	BATCHED:			THOD OF PL	ACEMENT:							
Chark	ad Par	É Parcio	· · · · · · ·	ا مد						1/3				
Day	7 1141	h-TOP C+M	4n7 7C		10011	ng 5 0	Nort	и	pull	a Tug	 /	, , , , , , , , , , , , , , , , , , ,		
1 PEINT	OV CEVNEN	T per	PIGH		1111	1 100r	<u>+007</u>	<u>In</u>	9 7	<u>3СИ</u>	<u>+ 11 </u>	1 <u>/ / 4</u>		
1/) -	700	nforcem + per Columi	1 Sche	<u>dv/+</u>	<u> </u>	orth b	evild 1	45	per		-2	<u> </u>		
dital	15 5	504.	5-50	3										
Reinta	orcing	splice	per 5	Chi	10/2	4/5	5-00	2						
				_										
							 							
·														
														
						· · · · · · · · · · · · · · · · · ·								
		· · · · · · · · · · · · · · · · · · ·												
				SAN	IPLES									
SUPPLIER:														
MIXED NO.	TICKET#	DESIGN SLUMP	MEASURED SLUMP	ADMI	XTURE	DESIGN PSI	CUBIC YAF	RDS	SPECIM	MENS		PERATI		
			SLUIVIP								AIVIE	3 CON	ic.	
<u> </u>														
							vine	_			<u> </u>			
Additional F	Page (Page #) (CM			REPO		uns Not Contair	n	ļ	Non-C	ompli	ant Ite	∍ms	
		on of Complianc			All inspec	ctions based on minim	num of 4 hours fo	r work	performed ov	ver 4 hou	rs = 8 hc	ours mini	murr	
ersonal knowledge	the work during the p	of the above statements period covered by this re lans, specifications and	eport has been perfo	of my own ormed and		or is called to a projec								
-		ordon L			A =====	und/A - 4thth	, <u> </u>).	ر	 	✓ ^ ^			
nepector's Sic	nature	Dordon	~)		Appro	ved/Authorized	т ру	(F	PROJECT SU	PERINTI	ENDE	S	_	
			-		0	:					ı			
nspector's Lic	ense # 5 _	Submitted by												



3035 S. Harbor Blvd.

Santa Ana, CA 92704 714/556-5867 • 714/556-5868 **Inspection Report TESTING ENGINEERS** JOB NUMBER 5-INSPECTOR CODE -10-06 JOB NAME BUILD PERMIT NUMBER / DSA / OSHPD APP. FILE# Saiful Len **REQUIREMENTS:** Limit of one job number, one permit number per sheet. Identify all work by type and SPECIFIC location. Non-compliant work must be specifically identified. Communication (RFI, Sketch, etc.) voiding previous non-compliant items must be listed, record conversations and communications with project designers, building and permit granting authority officials. HOURS REGULAR 1.5Y 2X TIME IN TIME OUT 9:00 am 2:00 am ☐ Show-Up Only _____ Re-Inspection Expenses Reinforcement Concrete _____ Concrete Placement ____ Masonry ____ Reinforcement Masonry ____ ☐ Quality Control _____ ☐ Administration ☐ Prestress/Post Tension ☐ Other **INSPECTION** 1st TRUCK BATCHED: 2 100 am METHOD OF PLACEMENT: Pump Observation of concrete placement approximately 650 co. yds footings @ basement North building Robertson's Mix # CHJ 05370 / 3000 psi concrete Footing were clean of depri + Loose dirt prior To pour Reinforcement Clearances acceptable
Used Electric Vibrator for consolidation tech made samples - report on file **SAMPLES** Robertsons SUPPLIER: **MEASURED** TEMPERATURE TICKET# DESIGN SLUMP MIXED NO. **ADMIXTURE DESIGN PSI** CUBIC YARDS **SPECIMENS** SLUMP AMB CONC. Additional Page (Page #) CM _

Certification of Compliance

I declare under penalty of perjury that all of the above statements are true, and that of my own personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans, specifications and all applicable codes

Inspector's Name Gordon Lewis Inspector's Signature _

Inspector's License # 5009669-84

Contains REPORT Does Not Contain

Non-Compliant Items

All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours minimum. If inspector is called to a project and no work is performed, a 2 bour minimum charge will be applied. KETTH SPEER - PM - S.J. AMORGE

Approved/Authorized by

Submitted by _



3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

TESTING ENG			-	ectic	on Kep	ort							
INSPECTOR SODE	NSTETT	JOB NUMBER 5	-10-01	M	T W T	F S S							
JOB NAME R	1 HASS	Bade			BUILD PERMIT NUMBER / DSA / OSHPD APP. FILE# JURISDICTION								
ADDRESS 6	ANGON C.	RIST DR K	LIVERSID	ہے ا	GENERAL CONTRACTOR								
ARCHITECT DA		ENGINEER SALE	L/Boirgill		SUBCONT	RACTOR (If Any)							
REQUIREMENT specifically ident	S: Limit of one ified. Communi		etc.) voiding prev	ious no	entify all n-complia	work by type ant items mus	and SPECIFIC locati t be listed, record co	on. Non-compliar nversations and c	nt work must be communications				
				HOU	JRS								
REGUL	AR	1.5X		2	X		TIME IN		ME OUT				
8	8						115 Am	814	-5 Bas				
Re-Inspection	on		Show-Up C	Only _			Expens	ses					
☐ Quality Conf	trol	Administratio	n 🔲	Prestr	ess/Pos	t Tension _		ACI TO	tely				
					CTION								
STARTED @:	2:00 Am	1st TRUCK	BATCHED:		ME	THOD OF F	PLACEMENT:	Purp					
			1 DEDWO	4, 6	E. C.	EW15		/=					
		Assisted	è Mara	162	م مر ا م عر ا	f Can	eriste						
	/	- J. 1.	7,00,00		, -								
		5 50	ets of c	18 1	inde	TO MA	+						
			-71 24	77.		W (13)	<u>/</u>						
		# 1	#2		#3	4	4	# 5					
Aie "		440	42°		40		38°	-					
Conce		600	60 2		60	8	600						
Slump		5"	63/4	*	64	2"	61/2"						
TKH	- 4	1220767					4220806						
	-												
				CVIV	IPLES			,					
SUPPLIER:				JAIV	IF LLO			· · · · · · · · · · · · · · · · · · ·					
	TIONET #	DESIGN SLUMP	MEASURED	ADMI	KTURE	DESIGN PS	SI CUBIC YARDS	SPECIMENS	TEMPERATURE				
MIXED NO.	TICKET #	DESIGN SLOWP	SLUMP	ADIVII		DESIGNES	COBIC TANDS	SPECIMENS	AMB CONC.				
		-											
						· <u>-</u>							
					ı								
Additional P	age (Page #)) CM			REPO	DT	ntains es Not Contain	Non-C	Compliant Items				
		tion of Complianc			All inspe	<u></u>	inimum of 4 hours for work	performed over 4 hou	urs = 8 hours minimum.				
personal knowledge to	he work during the	Il of the above statements period covered by this replans, specifications and	eport has been perforn				oject and no work is perform						
	<i>F</i>					1/4	`~\	1	1				
mspector's Na	The State of the S	E. BRAN	SHI		Appro	ved/Authoriz		PROJECT SUPERINT	ENDENT)				
	•	er bores	ucco		Cuite	:							
Inspector's Lice	ense #	- 5,57	ーショ		₁ Subm	itted by							



3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

714/556-5867 • 714/556-5868 **Inspection Report TESTING ENGINEERS** INSPECTOR CODE -15-06 JURISDICTION . 121VEVSI de JOB NAME BUILD PERMIT NUMBER / DSA / OSHPD APP, FILE ADDRESS GENERAL CONTRACTOR SUBCONTRACTOR (If Any) Bouguet Saiful Coast REQUIREMENTS: Limit of one job number, one permit number per sheet. Identify all work by type and SPECIFIC location. Non-compliant work must be specifically identified. Communication (RFI, Sketch, etc.) voiding previous non-compliant items must be listed, record conversations and communications with project designers, building and permit granting authority officials. **HOURS** REGULAR 1.5X 2X TIME IN TIME OUT 7:00 · 30 Re-Inspection ☐ Show-Up Only Expenses Reinforcement Concrete Concrete Placement Masonry Reinforcement Masonry _____ Administration _____ Prestress/Post Tension Other INSPECTION STARTED @: 1st TRUCK BATCHED: METHOD OF PLACEMENT: reinforcement placement Thursday SAMPLES SUPPLIER: **MEASURED** TEMPERATURE MIXED NO. TICKET# DESIGN SLUMP **ADMIXTURE** DESIGN PSI **CUBIC YARDS SPECIMENS** SLUMP AMB CONC. ☐ Contains Additional Page (Page #) CM _ REPORT Non-Compliant Items -Does Not Contain Certification of Compliance All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours minimum. I declare under penalty of perjury that all of the above statements are true, and that of my own If inspector is called to a project and no work is performed, a 2 hour minimum charge will be applied. personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans, specifications and all applicable codes Inspector's Name ___ Approved/Authorized by (PROJECT SUPERINTENDENT) Inspector's Signature

Submitted by

5009

Inspector's License #



Inspection Report

3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

TESTING ENG	INEERS		1115	hacut	Jii ne	hoir							
NSPECTOR CODE		JOB NUMBER	5-1425	-	DATE 2	-16-06	M	T W X	FSS				
OB NAME	1 C.R.				BUILD PERMIT NUMBER / DSA / OSRPD APP. FILE# JUNISDICTION								
ADDRESS 3615	CRIANA	a Crest Di	RIVERS	do	GENERAL CONTRACTOR S. J. A MOTOSO SUBCONTRACTOR (If Any)								
RCHITECT DAT	!	n Crest Dr ENGINEER Saifu	1/3040	100	SUBCON	TRACTOR (If Any)	Th Coas	+ Stock	,				
REQUIREMENT	S: Limit of one j	ob number, one per	rmit number per	sheet. Id	entify all	work by type and	SPECIFIC location	on. Non-compliar	it work must be				
		cation (RFI, Sketch, and permit granting			n-compli	ant items must be	listed, record co	nversations and o	communications				
					URS								
REGUL/	AR	1.5X		2	2X		TIME IN		30				
<u></u> გ							7:00	2	<i>JU</i>				
Re-Inspection	n		Show-Up	Only _	<u> </u>		Expens	ses					
Reinforceme	ent Concrete _	Cor	ncrete Placeme	ent		Masonry		nforcement Ma	sonry				
] Quality Cont	rol	Administration	n] Prestr	ess/Pos	st Tension	Other						
				INSPE	CTION								
STARTED @:		1st TRUCK	BATCHED:		ME	THOD OF PLA	CEMENT:						
Cample	ted rei	nforcemen	at Place	ment	- a	Basema	n+ - 500	oth hills	иа				
Fastings	-42"	nforcement +48" d	leen foo	tina	ŝ iri	f. 5-10	00 / Fro	ting vai	in Labor a most				
100111191	1 2 d) a	1/5-200	2 - (".)	1 / 3000 30		in Later a sum	+ 12	e solod	i porcement				
•	, , ,	hear wall											
		dowels											
per deta	il 6/	15-601	/ on p	revi	# .	report	640	LINE 1.	<u> </u>				
		not per	1			<i>i</i>	added		1245 +				
		proper											
60" D.	eep too	ting ret	5-10	<u>1 r</u>	eint	orcemth	+ per	plan					
Allar	eas wa	ere Clea	n of c	depi	· i 🕶	- Loose	dirt		 				
		ou ve						-accep	otable				
							-, •, •						
	.			SAM	IPLES								
SUPPLIER:				- OAII	II LLO								
MIXED NO.	TICKET#	DESIGN SLUMP	MEASURED	ADMI	XTURE	DESIGN PSI	CUBIC YARDS	SPECIMENS	TEMPERATURE				
MINED ITO.		DEGIGIT GEGINI	SLUMP	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		22010111101		0. 202	AMB CONC.				
	-	 											
													
					1				<u> </u>				
] Additional Pa	age (Page #)	CM			REPO	RT Conta	ins Not Contain	Non-C	Compliant Items				
_	Certificati	ion of Complianc	e		All inspe			performed over 4 hou	ers = 8 hours minimum.				
ersonal knowledge th	ne work during the p	of the above statements period covered by this re plans, specifications and a	eport has been perfor						charge will be applied.				
spector's Nar	ne <i>Go</i>	irdon L	ewis		Appro	ved/Authorized		20					
nspector's Sign	nature	unden	lus					ROJECT SUPERINT	NDENT)				
nenactor'e Lica		009669			Suhm	itted by							



Inspector's Signature

Inspector's License #_

5009669-84

3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

714/556-5867 • 714/556-5868 **Inspection Report TESTING ENGINEERS** INSPECTOR CODE -17-06 BUILD PERMIT NUMBER / DSA / OSHPD APP, FILE# JOB NAME GENERAL CONTRACTOR ADDRESS Coast Stepl Leo **REQUIREMENTS:** Limit of one job number, one permit number per sheet. Identify all work by type and SPECIFIC location. Non-compliant work must be specifically identified. Communication (RFI, Sketch, etc.) voiding previous non-compliant items must be listed, record conversations and communications with project designers, building and permit granting authority officials. **HOURS** REGULAR 1.5X 2X TIME IN TIME OUT 2:00 am 12:00 pm Show-Up Only Re-Inspection Expenses Reinforcement Concrete Placement Masonry Reinforcement Masonry Quality Control _____ Administration ____ Prestress/Post Tension ____ Other _ **INSPECTION** 1st TRUCK BATCHED: 2100 12 METHOD OF PLACEMENT: ervation of concrete placement approximately 720 cui yds pasement footings - south building + reti fixedwith excessive slump - colled COMING Vibrator for consolidation **SAMPLES** Kobertsons SUPPLIER: MEASURED TEMPERATURE MIXED NO. TICKET# **DESIGN SLUMP ADMIXTURE DESIGN PSI CUBIC YARDS SPECIMENS** SLUMP AMB CONC. CHJ 05370 ☐ Contains **REPORT** Additional Page (Page #) CM _ Non-Compliant Items / Does Not Contain Certification of Compliance All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours minimum. I declare under penalty of perjury that all of the above statements are true, and that of my own If inspector is called to a project and no work is performed, a 2 hour minimum charge will be applied. personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans, specifications and all applicable codes Gordon Inspector's Name Approved/Authorized by (PROJECT SUPERINTENDENT

Submitted by _



3035 S. Harbor Blvd. Santa Ana, CA 92704

714/556-5867 • 714/556-5868 **Inspection Report TESTING ENGINEERS** DATE 2 - 17-06 ADDRESS BOY CANYON CRIST BR. CITY WERS DE BUILD PERMIT NUMBER / DSA / OSHPD APP. FILE# JURISDICTIO GENERAL CONTRACTOR

5 J Amoros REQUIREMENTS: Limit of one job number, one permit number per sheet. Identify all work by type and SPECIFIC location. Non-compliant work must be specifically identified. Communication (RFI, Sketch, etc.) voiding previous non-compliant items must be listed, record conversations and communications with project designers, building and permit granting authority officials. **HOURS** REGULAR TIME IN 2X 1:15 Am ☐ Expenses Show-Up Only _ Re-Inspection Reinforcement Concrete _____ Concrete Placement ____ Masonry ____ Reinforcement Masonry ____ Quality Control ____ Administration ____ Prestress/Post Tension ____ Other Act 7406 INSPECTION METHOD OF PLACEMENT: Pump STARTED @: 2:00 Am 1st TRUCK BATCHED: Assisted Desputy to Levois W/ Nestring & MARLEMENT of Foundation Fatings 5 Sists of Cylinders Cast **SAMPLES** SUPPLIER: MEASURED TEMPERATURE MIXED NO. TICKET# **DESIGN SLUMP** ADMIXTURE **DESIGN PSI** CUBIC YARDS **SPECIMENS** SLUMP AMB CONC. CHIO5370 ∃ Contains Additional Page (Page #) CM _ REPORT Non-Compliant Items ☑ Does Not Contain Certification of Compliance All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours minimum. I declare under penalty of perjury that all of the above statements are true, and that of my own personal knowledge the work during the period covered by this report has been performed and If inspector is called to a project and no work is performed, a 2 hour minimum charge will be applied. installed in compliance with the approved plans, specifications and all applicable codes Inspector's Name GARY G. BRANSTETTEN

ACCOUNTING

Inspector's Signature <u>Hary & Beam</u>

Inspector's License # ___

Approved/Authorized by

Submitted by

(PROJECT SUPERINTENDENT)



Inspector's Name ___

Inspector's Signature

Inspector's License #

50096

3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

714/556-5867 • 714/556-5868 **Inspection Report TESTING ENGINEERS** INSPECTOR CODE 2-20-06 JOB NAME BUILD PERMIT NUMBER / DSA / OSHPD APP, FILE JUBISDICTION RIVEYSI de GENERAL CONTRACTOR 5. REQUIREMENTS: Limit of one job number, one permit number per sheet. Identify all work by type and SPECIFIC location. Non-compliant work must be specifically identified. Communication (RFI, Sketch, etc.) voiding previous non-compliant items must be listed, record conversations and communications with project designers, building and permit granting authority officials. HOURS REGULAR TIME IN TIME OUT 1.5X 2X 7:00 100 an Re-Inspection Show-Up Only __ Expenses Reinforcement Concrete _____ Concrete Placement ____ Masonry ___ Reinforcement Masonry Quality Control ____ Administration Prestress/Post Tension ___ Other INSPECTION STARTED @: 1st TRUCK BATCHED: METHOD OF PLACEMENT: reinforcement for North building **SAMPLES** SUPPLIER: **MEASURED TEMPERATURE** TICKET# **DESIGN SLUMP ADMIXTURE DESIGN PSI CUBIC YARDS SPECIMENS** MIXED NO. SLUMP AMB CONC. ☐ Contains REPORT Additional Page (Page #) CM _ Non-Compliant Items Does Not Contain Certification of Compliance All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours minimum. I declare under penalty of perjury that all of the above statements are true, and that of my own If inspector is called to a project and no work is performed, a 2 hour minimum charge will be applied. personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans, specifications and all applicable codes

ACCOUNTING

Approved/Authorized by

Submitted by ___

(PROJECT SUPERINTENDE



Inspection Report

3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

TESTING ENGINEERS		1110	poone	,ot	, , , ,							
INSPECTOR CODE	JOB NUMBER	05-142	15	سر DATE اح	1-21-00	M	X w	T	F S	S		
JOB NAME U.C.R.	Chass	;			TIMIT HOMBETT BOA	/ OSHPD APP. FIL	E#	JURISDICTION RICHARD				
ADDRESS 3615 Canyon		PILLERSI	do	GENERAL	CONTRACTOR	J. Ams						
ARCHITECT	LENGINEER -	1/Bougu		SUBCONT	RACTOR (If Any)	outh C		570,				
REQUIREMENTS: Limit of	one job number, one pe	rmit number per	sheet. Id	entify all	work by type and	SPECIFIC loc	ation. Non-cor	mpliant v	work mus	st be		
specifically identified. Comm with project designers, build				n-compli	ant items must be	listed, record	conversations	and cor	nmunical	tions		
L			HOL	URS								
REGULAR	1.5X		2	X		TIME IN	-		OUT			
8						7:00		3:0	$\frac{\mathcal{O}}{2}$			
Re-Inspection		☐ Show-Up	Only _		- -		enses					
Reinforcement Concre	ete Co	ncrete Placeme	ent		Masonry	DR	Reinforceme	nt Masc	onry			
Quality Control		on [] Prestr	ess/Pos	t Tension	Othe	er					
			INSPE									
STARTED @:	1st TRUCK	BATCHED:			THOD OF PLA	ACEMENT:						
						· 	1 11		· ····································	. , .		
Observation	CINTORO	em en T	PIUC	EMIT!	MI TOY	1 / 1	Baldi	<u>ny 1</u>	<u>- </u>	100		
Column 5										50		
Column @ (rid Line	<u>0-12</u>	par	<u>5° €</u>	hedule	CN12,	/ 5~3	99				
Column @	arid Line	17-15.1	jOp	V 50%	hedule C	N5/	<u>5-30</u>	<u>o</u>				
Column Lap	s perdeta	1/5	-30	1,	20/mn	77+5	4@	4	0, C	<u>. </u>		
per detail	1/5-301					0	et T					
Observation	n of drill	ing / x	(12	!"en	bedmen:	+ for	# 7	bars	<u>``</u>			
ner RFI#	76+77	7 @ 5h	ear	Wa	115 N			9				
basement (Frid Lines	· 4/B-	C ,	A	1/1-3	3.5	1-A-1	}_ .	D J	,		
12/ N- N.	6, L/i	2-17.	17/	IM	-N , P	1/17-1	8.7.	iR/	12.2.	-13.2		
holes were									ental	1/4		
EDOXY TOM		<u> </u>	<u>, , , , , , , , , , , , , , , , , , , </u>		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , , , , , , ,	<u> </u>	<u> </u>	7			
- pon from	77 7 3700											
			SAIV	IPLES						 1		
SUPPLIER:		MEASURED				I	1		TEMPERA	ATLIDE		
MIXED NO. TICKET	# DESIGN SLUMP	SLUMP	ADMIX	KTURE	DESIGN PSI	CUBIC YARD	S SPECIMI	ENS	AMB C			
										[
Additional Page (Page	REPORT Contains Does Not Contain Non-Compliant Items											
	ication of Compliand		of my arm		ctions based on minim							
I declare under penalty of perjury the personal knowledge the work during installed in compliance with the appropriate the personal transfer of the personal declaration o	the period covered by this oved plans, specifications and	report has been perfo all applicable codes		it inspect	or is called to a project	and no work is perf	formed, a 2 hour m	ınımum ch	arge will be	applied.		
Inspector's Name	orden Lec	NIS		Approved/Authorized by (PROJECT SUPERINTENDENT)								
							(11100201301	CIMILIN	DEINI)			
Inspector's License #	5009669-	Submitted by										



3035 S. Harbor Blvd. Santa Ana, CA 92704

714/556-5867 • 714/556-5868 **Inspection Report TESTING ENGINEERS** INSPECTOR CODE -22-06 JOB NAME BUILD PERMIT NUMBER / DSA / OSHPD APP. FILE RIVERSIDE GENERAL CONTRACTOR 3619 SUBCONTRACTOR (If Any) ENGINEER Saifu ARCHITECT South Leo Coast REQUIREMENTS: Limit of one job number, one permit number per sheet. Identify all work by type and SPECIFIC location. Non-compliant work must be specifically identified. Communication (RFI, Sketch, etc.) voiding previous non-compliant items must be listed, record conversations and communications with project designers, building and permit granting authority officials. **HOURS** TIME IN TIME OUT REGULAR 2X 1.5X 7:00 Show-Up Only _ ☐ Re-Inspection Expenses Concrete Placement _____ Masonry Reinforcement Concrete ___ _ Reinforcement Masonry _ Quality Control _____ Administration ____ Prestress/Post Tension ____ Other INSPECTION STARTED @: 1st TRUCK BATCHED: METHOD OF PLACEMENT: **SAMPLES** SUPPLIER: TEMPERATURE MEASURED MIXED NO. **ADMIXTURE** DESIGN PSI **CUBIC YARDS SPECIMENS** TICKET # **DESIGN SLUMP** SLUMP AMB CONC. Contains Additional Page (Page #) CM_

Certification of Compliance

I declare under penalty of perjury that all of the above statements are true, and that of my own personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans, specifications and all applicable codes

Inspector's Name __Gordon

Inspector's Signature

5009669 Inspector's License #

REPORT

∠ Does Not Contain

Non-Compliant Items <

All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours minimum. If inspector is called to a project and no work is performed, a 2 hour minimum charge will be applied.

Approved/Authorized by

(PROJECT SUPERINTENDENT)

significant sections

Submitted by _



Inspector's License #

3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

714/556-5867 • 714/556-5868 **Inspection Report TESTING ENGINEERS** JOB NUMBER INSPECTOR CODE <u>-23-06</u> BUILD PERMIT NUMBER / DSA / OSHPD APP. FILE JURISDICTION RIVERSIDE JOB NAME GENERAL CONTRACTOR 3614 Saiful REQUIREMENTS: Limit of one job number, one permit number per sheet. Identify all work by type and SPECIFIC location. Non-compliant work must be specifically identified. Communication (RFI, Sketch, etc.) voiding previous non-compliant items must be listed, record conversations and communications with project designers, building and permit granting authority officials. **HOURS** REGULAR TIME IN TIME OUT 1.5X 2X 7:00 Show-Up Only Expenses Re-Inspection Reinforcement Concrete _____ Concrete Placement ____ Masonry ___ Reinforcement Masonry ___ Quality Control _____ Administration ____ Prestress/Post Tension ____ Other _ INSPECTION STARTED @: 1st TRUCK BATCHED: METHOD OF PLACEMENT: columns are being changed SAMPLES SUPPLIER: MEASURED TEMPERATURE MIXED NO. TICKET# DESIGN SLUMP **ADMIXTURE DESIGN PSI CUBIC YARDS SPECIMENS** AMB CONC. SLUMP ☐ Contains REPORT Additional Page (Page #) CM Non-Compliant Items > Does Not Contain Certification of Compliance All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours minimum. I declare under penalty of perjury that all of the above statements are true, and that of my own If inspector is called to a project and no work is performed, a 2 hour minimum charge will be applied. personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans, specifications and all applicable codes Inspector's Name_ Approved/Authorized by (PROJECT SUPERINTENDEN Inspector's Signature _

Submitted by _



Inspector's Signature _
Inspector's License # _

3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

(PROJECT SUPERINTENDENT)

714/556-5867 • 714/556-5868 **Inspection Report TESTING ENGINEERS** INSPECTOR CODE 24-06 JOB NAME BUILD PERMIT NUMBER / DSA / OSHPD APP. FILE# JURISDICTION ... GENERAL CONTRACTOR 5. J. SUBCONTRACTOR (If Any) COBST REQUIREMENTS: Limit of one job number, one permit number per sheet. Identify all work by type and SPECIFIC location. Non-compliant work must be specifically identified. Communication (RFI, Sketch, etc.) voiding previous non-compliant items must be listed, record conversations and communications with project designers, building and permit granting authority officials. **HOURS** TIME OUT REGULAR 1.5X 2X TIME IN 7:00 2130 Re-Inspection Show-Up Only _ Expenses ☐ Reinforcement Masonry Quality Control _____ Administration ____ Prestress/Post Tension ____ Other _ INSPECTION STARTED @: 1st TRUCK BATCHED: METHOD OF PLACEMENT: veinforcement before closing with forms @ Column CNI installing veinforcement @ Grid Line 12 **SAMPLES** SUPPLIER: **MEASURED TEMPERATURE** MIXED NO. TICKET# **DESIGN SLUMP ADMIXTURE** DESIGN PSI **CUBIC YARDS SPECIMENS** SLUMP AMB CONC. Contains Additional Page (Page #) CM _ REPORT Non-Compliant Items ☑ Does Not Contain Certification of Compliance All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours minimum. I declare under penalty of perjury that all of the above statements are true, and that of my own personal knowledge the work during the period covered by this report has been performed and If inspector is called to a project and no work is performed, a 2 hour minimum charge will be applied. installed in compliance with the approved plans, specifications and all applicable codes Inspector's Name (50kdon Approved/Authorized by

Submitted by _





	UCR- Chass Bui	ilding		JOB NO:	05-1425
SS:	3615 Canyon C	rest Drive, Riverside, C	CA 92507	LAB NO:	3026
S:	275 East Baker	Street, Suite B			
	Concrete	-			
RUCTURE:		South footings @ L 8	k 15		
CHJ05370	_ MEA	ASURED SLUMP (in):	5	SPEC'D PSI:	3000
N/A	_	AMBIENT TEMP:	44	CONCRETE TEMP:	60
Robertson's		_DIAMETER (in):	6	AREA (sq. in.):	28.28
2/10/2006	TIME CAST	2:38 A.M.	CAST BY:	G.Branstetter	CO.: RTE
SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE
7	2/17/2006	105,480		D	54
28	3/10/2006		0		
28	3/10/2006	-			
Hold					
Compressio ASTM C31, Compressio	n test results w C39, C143, C17	vere satisfactory and 72, C1231 & C1064.	conform to the	, ,	
	SAMPLE AGE 7 28 28 Hold CONE (A), C Compressio ASTM C31,	SS: 3615 Canyon C S.J. Amoroso Co 275 East Baker: Costa Mesa, CA Concrete RUCTURE: CHJ05370 MEA N/A Robertson's 2/10/2006 TIME CAST SAMPLE AGE 7 2/17/2006 28 3/10/2006 28 3/10/2006 Hold CONE (A), CONE & SPLIT (Compression test results was ASTM C31, C39, C143, C17) Compression test results was asserted to the compression test results was asserted.	S.J. Amoroso Construction Co., Inc 275 East Baker Street, Suite B Costa Mesa, CA 92626-4504 Concrete RUCTURE: South footings @ L 8 CHJ05370 MEASURED SLUMP (in): N/A AMBIENT TEMP: DIAMETER (in): 2/10/2006 TIME CAST 2:38 A.M. SAMPLE AGE TEST DATE MAXIMUM LOAD (lbf) 7 2/17/2006 105,480 28 3/10/2006 28 3/10/2006 Hold CONE (A), CONE & SPLIT (B), CONE & SHEAR (A) Compression test results were satisfactory and ASTM C31, C39, C143, C172, C1231 & C1064. Compression test results were not satisfactory	SS: 3615 Canyon Crest Drive, Riverside, CA 92507 S.J. Amoroso Construction Co., Inc 3: 275 East Baker Street, Suite B Costa Mesa, CA 92626-4504 Concrete TRUCTURE: South footings @ L & 15 CHJ05370 MEASURED SLUMP (in): 5 N/A AMBIENT TEMP: 44 Robertson's DIAMETER (in): 6 2/10/2006 TIME CAST 2:38 A.M. CAST BY: SAMPLE AGE (lbf) STRENGTH (psi) 7 2/17/2006 105,480 3,730 28 3/10/2006	SS: 3615 Canyon Crest Drive, Riverside, CA 92507 LAB NO: S.J. Amoroso Construction Co., Inc. 275 East Baker Street, Suite B Costa Mesa, CA 92626-4504 Concrete RUCTURE: South footings @ L & 15 CHJ05370 MEASURED SLUMP (in): 5 SPEC'D PSI: N/A AMBIENT TEMP: 44 CONCRETE TEMP: Robertson's DIAMETER (in): 6 AREA (sq. in.): 2/10/2006 TIME CAST 2:38 A.M. CAST BY: G.Branstetter SAMPLE AGE (Ibf) COMPRESSIVE STRENGTH (psi) 7 2/17/2006 105,480 3,730 D 28 3/10/2006 0 28 3/10/2006 0 28 3/10/2006 0 CONE (A), CONE & SPLIT (B), CONE & SHEAR (C), SHEAR (D), COLUMNAR (E) Compression test results were satisfactory and conform to the specifications of ASTM C31, C39, C143, C172, C1231 & C1064. Compression test results were not satisfactory





PROJECT NAME:	:	UCR- Chass Bui	lding		JOB NO:	05-142	<u>5</u>
PROJECT ADDRE	ESS:	3615 Canyon Cı	rest Drive, Riverside, C	A 92507	LAB NO:	302	7
CLIENT NAME: CLIENT ADDRES	S:	S.J. Amoroso Co 275 East Baker S Costa Mesa, CA	•				
SPECIMEN TYPE	:	Concrete	-				
LOCATION IN S	TRUCTURE:		East footings @ N &	12			_
MIX NO:	CHJ05370	_ MEA	SURED SLUMP (in):	6 3/4	SPEC'D PSI:	3000	<u>o</u>
AIR CONTENT:	N/A	_	AMBIENT TEMP:	42	CONCRETE TEMP:	60	0
SUPPLIER:	Robertson's		_DIAMETER (in):	6	AREA (sq. in.):	28.28	
DATE CAST:	2/10/2006	TIME CAST	3:46 A.M.	CAST BY:	G.Branstetter	.CO.: RTE	
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE]
1	7	2/17/2006	86,280	3,051	D	·	55
2	28	3/10/2006		0	-		
3	28	3/10/2006					1
4	Hold						7
							<u>_</u>
	<u></u>				<u> </u>	<u></u>	الـ
*	CONE (A),	CONE & SPLIT (E	3), CONE & SHEAR (C), SHEAR (D), C	OLUMNAR (E)		
	Compression	n test results w	ere satisfactory and	conform to the	specifications of		
	•		2, C1231 & C1064.		•		
	•		ere not satisfactory				
	REMARKS:	High slump					
							
		Dr. Saniav Gov	vil, P.E. License Num	nber 51523			
		,,	,				





PROJECT NAME	•	UCR- Chass Bui	lding		JOB NO:	05-14	25
PROJECT ADDR	ESS:	3615 Canyon C	rest Drive, Riverside, C	CA 92507	LAB NO:	30	28
CLIENT NAME: CLIENT ADDRES	SS:	S.J. Amoroso Co 275 East Baker S Costa Mesa, CA					
SPECIMEN TYPE	<u>:</u>	Concrete	_				
LOCATION IN S	TRUCTURE:		Westfootings @ Q &	18.7			
MIX NO:	CHJ05370	_ MEA	SURED SLUMP (in):	6 1/2	SPEC'D PSI:	30	000
AIR CONTENT:	N/A	_	AMBIENT TEMP:	40	CONCRETE TEMP:		60
SUPPLIER:	Robertson's		_DIAMETER (in):	6	AREA (sq. in.):	28.28	
DATE CAST:	2/10/2006	TIME CAST	4:48 A.M.	CAST BY:	G.Branstetter	_CO.:R1	<u>re</u>
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE	
1	7	2/17/2006	101,840	3,601	D		_52
2	28	3/10/2006		0			72
3	28	3/10/2006					
4	Hold						
*	Compression	n test results w	B), CONE & SHEAR ((
			2, C1231 & C1064. ere not satisfactory				
	REMARKS:	High slump		·			
		Dr. Sanjay Gov	vil, P.E. License Num	nber 51523	•	,	





PROJECT NAME	:	UCR- Chass Bu	ilding		JOB NO:	0	5-1425
PROJECT ADDR	ESS:	3615 Canyon C	rest Drive, Riverside, C	CA 92507	LAB NO:		3029
CLIENT NAME: CLIENT ADDRES	SS:	S.J. Amoroso Co 275 East Baker Costa Mesa, CA	•				
SPECIMEN TYPE		Concrete	_				
LOCATION IN S	TRUCTURE:		North footings @ R &	<u>ዩ</u> 13			<u>.</u>
MIX NO:	CHJ05370	_ MEA	ASURED SLUMP (in):	5 1/2	SPEC'D PSI:	;	3000
AIR CONTENT:	N/A	_	AMBIENT TEMP:	42	CONCRETE TEMP:		60
SUPPLIER:	Robertson's		_DIAMETER (in):	6	AREA (sq. in.):	28.2	8
DATE CAST:	2/10/2006	TIME CAST	7:45 A.M.	CAST BY:	G.Branstetter	_CO.:	RTE
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DA AVERA	
1	7	2/17/2006	100,650		D	1	54
2	28	3/10/2006		0		<u> </u>	
3	28	3/10/2006				<u> </u>	
4	Hold						
		· ·		· · · · · · · · · · · · · · · · · · ·			
	Compression ASTM C31,	on test results w C39, C143, C17	B), CONE & SHEAR (overe satisfactory and 22, C1231 & C1064. Were not satisfactory	conform to the			
		Dr. Sanjay Go	vil, P.E. License Num	nber 51523			





PROJECT NAME	:	UCR- Chass Bui	UCR- Chass Building JOB NO:							
PROJECT ADDRE	ESS:	3615 Canyon C	rest Drive, Riverside, C	CA 92507	LAB NO:	3030)			
CLIENT NAME: CLIENT ADDRES	S:	S.J. Amoroso Co 275 East Baker S Costa Mesa, CA								
SPECIMEN TYPE	:	Concrete	-							
LOCATION IN S	TRUCTURE:		North west footings	@ 17 & Q		· · · · · · · · · · · · · · · · · · ·	-			
MIX NO:	CHJ05370	_ MEA	SURED SLUMP (in):	6 1/2	SPEC'D PSI:	3000	<u> </u>			
AIR CONTENT:	N/A	_	AMBIENT TEMP:	38	CONCRETE TEMP:	60	<u> </u>			
SUPPLIER:	Robertson's		_DIAMETER (in):	6	AREA (sq. in.):	28.28	_			
DATE CAST:	2/10/2006	TIME CAST	6:00 A.M.	CAST BY:	G.Branstetter	CO.: <u>RTE</u>				
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE				
1	7	2/17/2006	98,760		D		55			
2	28	3/10/2006		0			-			
. 3	28	3/10/2006	** ·· · · · · · · · · · · · · · · · · ·				1			
4	Hold				-	<u> </u>	1			
							1			
							1			
	Compression ASTM C31,	n test results w C39, C143, C17	B), CONE & SHEAR (vere satisfactory and 22, C1231 & C1064. Vere not satisfactory	conform to the	, ,	-	_			
		Dr. Sanjay Go	vil, P.E. License Nun	nber 51523						





PROJECT NAME	:	UCR- Chass Bui	ilding		JOB NO:	05-1425
PROJECT ADDRE	ESS:	3615 Canyon C	rest Drive, Riverside, C	A 92507	LAB NO:	3081
CLIENT NAME: CLIENT ADDRES	S:	S.J. Amoroso Co 275 East Baker S Costa Mesa, CA				
SPECIMEN TYPE	:	Concrete	_			
LOCATION IN S	TRUCTURE:	Foundation foo	ting Grid line: D/2			
MIX NO:	CHJ05370	_ MEA	SURED SLUMP (in):	5 1/2	SPEC'D PSI:	3000
AIR CONTENT:	N/A	-	AMBIENT TEMP:	35	CONCRETE TEMP:	60
SUPPLIER:	Robertson's		_DIAMETER (in):	6	AREA (sq. in.):	28.28
DATE CAST:	2/17/2006	TIME CAST	7:05 A.M.	CAST BY:	G.Branstetter	CO.: <u>RTE</u>
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (Ibf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE
1	7	2/27/2006	118,740	4,199	D	
2	28	3/17/2006		0		
3	28	3/17/2006				
4	Hold					
*	Compressio ASTM C31,	n test results w C39, C143, C17	3), CONE & SHEAR (0 vere satisfactory and 2, C1231 & C1064. vere not satisfactory			
		Dr. Saniay Gov	vil P.F. License Num	her 51523		





PROJECT NAME	:	UCR- Chass Bu	ilding		JOB NO:	05-1425
PROJECT ADDR	ESS:	3615 Canyon C	rest Drive, Riverside, (CA 92507	LAB NO:	3082
CLIENT NAME: CLIENT ADDRES	SS:	S.J. Amoroso Co 275 East Baker Costa Mesa, CA				
SPECIMEN TYPE	• •	Concrete	_			
LOCATION IN S	TRUCTURE:	Foundation foo	oting Grid line: C/1		<u></u> .	·
MIX NO:	CHJ05370	_ MEA	ASURED SLUMP (in):	4 1/2	SPEC'D PSI:	3000
AIR CONTENT:	N/A	_	AMBIENT TEMP:	42	CONCRETE TEMP:	60
SUPPLIER:	Robertson's		_DIAMETER (in):	6	AREA (sq. in.):	28.28
DATE CAST:	2/17/2006	TIME CAST	2:22 A.M.	CAST BY:	G.Branstetter	CO.: RTE
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE
1	7	2/27/2006	109,530		D	
2	28	3/17/2006		0		
3	28	3/17/2006				
4	Hold					
	Compressio ASTM C31,	n test results w C39, C143, C17	B), CONE & SHEAR (vere satisfactory and 2, C1231 & C1064. Vere not satisfactory	conform to the	· •	
		Dr. Sanjay Gov	vil, P.E. License Nun	nber 51523		





PROJECT NAME	:	UCR- Chass Bu	JOB NO:	05-1425		
PROJECT ADDR	ESS:	3615 Canyon C	rest Drive, Riverside, C	CA 92507	LAB NO:	3083
CLIENT NAME: CLIENT ADDRES	SS:	S.J. Amoroso Co 275 East Baker Costa Mesa, CA				
SPECIMEN TYPE	:	Concrete	_			
LOCATION IN S	TRUCTURE:	Foundation foo	oting Grid line: B/3.5			
MIX NO:	CHJ05370	_ MEA	ASURED SLUMP (in):	5 1/2	SPEC'D PSI:	3000
AIR CONTENT:	N/A		AMBIENT TEMP:	52	CONCRETE TEMP:	60
SUPPLIER:	Robertson's		_DIAMETER (in):	6	AREA (sq. in.):	28.28
DATE CAST:	2/17/2006	TIME CAST	10:15 A.M.	CAST BY:	G.Branstetter	CO.: <u>RTE</u>
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE
1	7	2/27/2006	95,660		D	
2	28	3/17/2006	-	0		
3	28	3/17/2006				
4	Hold					
	<u> </u>		<u></u>			
*		-	B), CONE & SHEAR (, , ,	• •	
	<u> </u>		ere satisfactory and	conform to the	specifications of	
	ASTM C31,	C39, C143, C17	2, C1231 & C1064.			
	Compressio	n test results w	ere not satisfactory			
	REMARKS:					
					- 1 - 1 - 1	
						
		Dr. Sanjay Gov	vil, P.E. License Num	nber 51523		





PROJECT NAME	:	UCR- Chass Bu	ilding		JOB NO:	05-1425
PROJECT ADDRI	ESS:	3615 Canyon C	rest Drive, Riverside, C	A 92507	LAB NO:	3084
CLIENT NAME: CLIENT ADDRES	S:	S.J. Amoroso Co 275 East Baker : Costa Mesa, CA				
SPECIMEN TYPE	:	Concrete	_			
LOCATION IN S	TRUCTURE:	Foundation foo	oting Grid line: D/1			
MIX NO:	CHJ05370	_ MEA	ASURED SLUMP (in):	5 3/4	SPEC'D PSI:	3000
AIR CONTENT:	N/A	_	AMBIENT TEMP:	44	CONCRETE TEMP:	60
SUPPLIER:	Robertson's		_DIAMETER (in):	6	AREA (sq. in.):	28.28
DATE CAST:	2/17/2006	TIME CAST	8:30 A.M.	CAST BY:	G.Branstetter	CO.: RTE
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE
1	7	2/27/2006	94,750	3,350	D	
2	28	3/17/2006		0		
3	28	3/17/2006				
4	Hold					
*	Compressio	n test results w	3), CONE & SHEAR ((vere satisfactory and		• •	
	•		2, C1231 & C1064. Pere not satisfactory			
	REMARKS:			hov E1E22		
		טר. Sanjay GoV	vil, P.E. License Num	ider 5 1523		





PROJECT NAME	:	UCR- Chass Bui	lding		JOB NO:	05-1425	<u>;</u>
PROJECT ADDR	ESS:	3615 Canyon C	rest Drive, Riverside, C	CA 92507	LAB NO:	3085	<u>;</u>
CLIENT NAME: CLIENT ADDRES	SS:	S.J. Amoroso Co 275 East Baker S Costa Mesa, CA					
SPECIMEN TYPE	:	Concrete	_				
LOCATION IN S	TRUCTURE:	Foundation foo	ting Grid line: B/3.5				_
MIX NO:	CHJ05370	MEA	SURED SLUMP (in):	5	SPEC'D PSI:	3000)
AIR CONTENT:	N/A	_	AMBIENT TEMP:	40	CONCRETE TEMP:	60	_
SUPPLIER:	Robertson's		DIAMETER (in):	6	AREA (sq. in.):	28.28	_
DATE CAST:	2/17/2006	TIME CAST	4:06 A.M.	CAST BY:	G.Branstetter	CO.: RTE	
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE	Ī
1	7	2/27/2006	111,030		D		
2	28	3/17/2006		0			1
3	28	3/17/2006					1
4	Hold						
							
*	Compressio	n test results w	3), CONE & SHEAR (0 ere satisfactory and 2, C1231 & C1064.				
			ere not satisfactory				
	REMARKS:						
		Dr. Sanjay Gov	ril, P.E. License Num	ber 51523			



UNBY OF CALLE BIVERSIDE

CHANGE OF CALLE BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE OF CALLED BIVERSIDE

CHANGE

MAR 20 2006

Date:

March 16, 2006

Report distribution package of Field Inspection Reports and/or Laboratory results on materials tested.

Job Name:

UCR Chass Building

Job Address:

3615-A Canyon Crest Drive

City:

Riverside, CA

Client Name:

SJ Amoroso Construction Co.

You are receiving these reports at the request of our client. If you are not the correct recipient or wish to discontinue to receipt, please contact Denise DeGroff at 714/556-5867.



714/556-5867 • 714/556-5868 **Inspection Report TESTING ENGINEERS** INSPECTOR CODE -09-06 JOB NAME BUILD PERMIT NUMBER / DSA / OSHPD APP. FILE# JUBISDICTION GENERAL CONTRACTOR moroso REQUIREMENTS: Limit of one job number, one permit number per sheet. Identify all work by type and SPECIFIC location. Non-compliant work must be specifically identified. Communication (RFI, Sketch, etc.) voiding previous non-compliant items must be listed, record conversations and communications with project designers, building and permit granting authority officials. **HOURS** REGULAR TIME OUT 1.5X 2X TIME IN 100 100 Re-Inspection Show-Up Only ☐ Expenses Reinforcement Concrete _____ Concrete Placement ____ Masonry ____ Reinforcement Masonry ____ Quality Control _____ Administration ____ Prestress/Post Tension ____ Other _ INSPECTION STARTED @: 1st TRUCK BATCHED: METHOD OF PLACEMENT: **SAMPLES** SUPPLIER: MEASURED TEMPERATURE **SPECIMENS** MIXED NO. TICKET # **DESIGN SLUMP** ADMIXTURE **DESIGN PSI CUBIC YARDS** AMB CONC. SLUMP ☐ Contains REPORT Additional Page (Page #) CM Non-Compliant Items Certification of Compliance All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours minimum. I declare under penalty of perjury that all of the above statements are true, and that of my own personal knowledge the work during the period covered by this report has been performed and If inspector is called to a project and no work is performed, a 2 hour minimum charge will be applied. installed in compliance with the approved plans, specifications and all applicable codes Inspector's Name ____ Approved/Authorized by (PROJECT SUPERINTENDE Inspector's Signature

Submitted by

500966

Inspector's License #_



Inspector's Signature

Inspector's License # 5009669-

3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

714/556-5867 • 714/556-5868 **Inspection Report TESTING ENGINEERS** JOB NUMBER INSPECTOR CODE BUILD PERMIT NUMBER / DSA / OSHPD APP. FILE# JOB NAME GENERAL CONTRACTOR FNGINEER SUBCONTRACTOR (If Any) ARCHITECT 100 REQUIREMENTS: Limit of one job number, one permit number per sheet. Identify all work by type and SPECIFIC location. Non-compliant work must be specifically identified. Communication (RFI, Sketch, etc.) voiding previous non-compliant items must be listed, record conversations and communications with project designers, building and permit granting authority officials. **HOURS** TIME OUT TIME IN REGULAR 1.5X 9:00 am 2:00 am Show-Up Only _ Expenses Re-Inspection Reinforcement Concrete Concrete Placement Masonry Reinforcement Masonry Quality Control _____ Administration ____ Prestress/Post Tension ____ Other _ INSPECTION 1st TRUCK BATCHED: 100 am METHOD OF PLACEMENT: building **SAMPLES** SUPPLIER: OBYVYSONS TEMPERATURE **MEASURED** DESIGN PSI **DESIGN SLUMP ADMIXTURE CUBIC YARDS** SPECIMENS MIXED NO. TICKET# AMB CONC. SLUMP ☐ Contains Additional Page (Page #) CM _ REPORT Non-Compliant Items , Does Not Contain Certification of Compliance All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours minimum. I declare under penalty of perjury that all of the above statements are true, and that of my own If inspector is called to a project and no work is performed, a 2 bour minimum charge will be applied. personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans, specifications and all applicable codes Inspector's Name ___

Submitted by _



Inspector's Signature _______

Inspector's License #_

3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

(PROJECT SUPERIN

714/556-5867 • 714/556-5868 **Inspection Report TESTING ENGINEERS** DATE 2-12-06 BUILD PERMIT NUMBER / DSA / OSHPD APP. FILE# SUBCONTRACTOR (If Any) REQUIREMENTS: Limit of one job number, one permit number per sheet. Identify all work by type and SPECIFIC location. Non-compliant work must be specifically identified. Communication (RFI, Sketch, etc.) voiding previous non-compliant items must be listed, record conversations and communications with project designers, building and permit granting authority officials. **HOURS** REGULAR TIME IN TIME OUT 1:115 Am Re-Inspection Show-Up Only _ Expenses Reinforcement Concrete ____ Concrete Placement ____ Masonry ___ Reinforcement Masonry ___ Quality Control _____ Administration ____ Prestress/Post Tension ____ ROther Rot Tension INSPECTION STARTED @: Z; Oo Am 1st TRUCK BATCHED: METHOD OF PLACEMENT: Set of Cylinders CAST 4-220767 SAMPLES SUPPLIER: **MEASURED TEMPERATURE** MIXED NO. TICKET # **DESIGN SLUMP ADMIXTURE DESIGN PSI CUBIC YARDS SPECIMENS** SLUMP AMB CONC. Contains ☐ Additional Page (Page #) CM REPORT Non-Compliant Items Does Not Contain Certification of Compliance All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours minimum. I declare under penalty of perjury that all of the above statements are true, and that of my own personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans, specifications and all applicable codes If inspector is called to a project and no work is performed, a 2 hour minimum charge will be applied. Inspector's Name GARGE BRANSTETTER Approved/Authorized by

Submitted by



3035 S. Harbor Blvd. Santa Ana, CA 92704

714/556-5867 • 714/556-5868 **Inspection Report TESTING ENGINEERS** INSPECTOR CODE JOB NUMBER 15-06 BUILD PERMIT NUMBER / DSA / OSHPD APP. FILE# JOB NAME JUBISDICTION RIVerside GENERAL CONTRACTOR SUBCONTRACTOR (If Any) Leo REQUIREMENTS: Limit of one job number, one permit number per sheet. Identify all work by type and SPECIFIC location. Non-compliant work must be specifically identified. Communication (RFI, Sketch, etc.) voiding previous non-compliant items must be listed, record conversations and communications with project designers, building and permit granting authority officials. **HOURS** TIME IN TIME OUT REGULAR 1.5X 2X 7',00 Show-Up Only Expenses Re-Inspection Reinforcement Concrete Concrete Concrete Placement Masonry Reinforcement Masonry _ ☐ Administration ☐ Prestress/Post Tension INSPECTION METHOD OF PLACEMENT: STARTED @: 1st TRUCK BATCHED: SUPPLIER: MEASURED TEMPERATURE **CUBIC YARDS** MIXED NO. TICKET # **DESIGN SLUMP ADMIXTURE DESIGN PSI SPECIMENS** AMB CONC. SLUMP Contains **REPORT** Non-Compliant Items -Additional Page (Page #) CM Does Not Contain Certification of Compliance All inspections based on minimum of 4 hours for work performed over 4 hours 8 hours minimum: I declare under penalty of perjury that all of the above statements are true, and that of my own personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans, specifications and all applicable codes If inspector is called to a project and no work is performed, a 2 hour minimum charge will be applied

Inspector's Signature 50096 Inspector's License #

Inspector's Name_

Approved/Authorized by

(PROJECT SUPERINTENDENT)

ACCOUNTING

Submitted by



TESTING ENGINEERS		Ins	pection	on Re	oort			
INSPECTOR CODE	JOB NUMBER	<u> </u>	-	DATE 7	-162 -06	M // OSHPD APP. FILE#	T W T	FS
JOB NAME)_ <u></u>		BUILD PE	RMIT NUMBER / DSA	/ OSHPD APP. FILE#	JURI	ISDICTION
ADDRESS	(X.	CITY	,	GENERAL	CONTRACTOR	J. Amo		
ARCHITECT CAN	YON Crest I	ir. KIVERS	ide	SUBCON'	TRACTOR (If Any)	J. HMO	roso_	
REQUIREMENTS: Limit o	Saif	VI/BOV90	1/07 about 1d	lantific all	Sou	th Coas	on Non-complic	Int work must be
specifically identified. Com with project designers, bui	imunication (RFI, Sketch	ı, etc.) voiding pre	vious no	n-compli	ant items must be	e listed, record co	nversations and	communications
			HOL	JRS				
REGULAR	1.5X		2	2X		TIME IN		IME OUT
8						7:00	1	130
Re-Inspection		_ ☐ Show-Up	Only _			DExpen	ses	
Reinforcement Conc	rete Co	ncrete Placeme	ent		Masonry	Re	inforcement M	lasonry
Quality Control	Administrati	on [_] Prestr	ess/Pos	t Tension	Dther		
			INSPE	CTION				
STARTED @:	1st TRUCK	BATCHED:		МЕ	THOD OF PLA	ACEMENT:		
Completed	reinforceme	ut Places	איי מי פי מז	- @	Basema	n+ - 50	eth hila	lina
Footings - 4.								
per 3chedul	0 1/5-20	n + (")	1/10/20	ر مردا ر	in Lake Dia	ران از از از از از از از از از از از از از	ir sakad	in Forceme
1/5-300								
Concrete wa								
CANCRETE WE	(/ sa Coll	1ser aret	7411 7-1211	1015	henny-	+ Chil	1 1 ins 1	<u> ۱- ۲</u>
per detail bottom ma	6/3-671	Jon p	101	# 1	1 1000	a dela d	7 13	12054
60 110 ma	11 NOT pe	y plan-	_10		11.	agaea		12631
	th proper							
60" Deep		<i>A</i>					f .	_
Allareus	were Cla	in of c	repi	· / ÷	- Loose	dirt		
3 cleara	nces on v	einfor	C + M	rnt	agoin.	st dirt	-acce	ptable
	·							, <u></u>
			SAM	IPLES				
SUPPLIER:			-					
MIXED NO. TICKE	T# DESIGN SLUMP	MEASURED SLUMP	ADMIX	XTURE	DESIGN PSI	CUBIC YARDS	SPECIMENS	TEMPERATUR
			-					-
Additional Page (Pag	ne #) CM			REPO	RT Conta		Non-	I -Compliant Iter
	ification of Complian	ce			Does	Not Contain	 	<u> </u>
declare under penalty of perjury personal knowledge the work during the stalled in compliance with the app	that all of the above statemen	ts are true, and that of report has been perfor	f my own med and	All inspe	ctions based on minim or is called to a projec	um of 4 hours for work	k performed over 4 h med, a 2 hour minimu	ours = 8 hours minim im charge will be appl
•	Gordon L	• •		Appro	ved/Authorized	i by) de	
nspector's Signature _	Dordon -	Jus				- (PROJECT SUPERIN	TOSTE
nspector's License#_	_			Subm	itted by		T.	1400



TESTING ENGINE	ERS		ms	peca	on Ke	hotr			
INSPECTOR CODE		JOB NUMBER	T-1425	•	DATE .	1-17-00	. M	TWT	F S S
JOB NAME UC	R				BUILD PE	RMIT NUMBER / DS.	A / OSHPD APP. FILE#	JURIS D ()	DICTION , Crside
ADDRESS 3615	CARRA	MILPST	CITY PILES	ida	GENERA	CONTRACTOR	1 Amois		77776
ARCHITECT	Canyo	ENGINEER	RIVers	14 0	SUBCON	TRACTOR (If Any)	J. Amer	<u>000</u>	
REQUIREMENTS: Li			ermit number per s	sheet. Ic	lentify all	work by type and	SPECIFIC location	on. Non-compliar	nt work must be
specifically identified with project designer					on-compli	ant items must b	e listed, record cor	nversations and o	communications
				НО	URS				
REGULAR		1.5X		2	2X		TIME IN		ME OUT
8		<u> </u>				2	:00 am	12'0	Do pm
Re-Inspection _			Show-Up	Only _			Expens	ses	
☐ Reinforcement C	Concrete	<u> </u>	ncrete Placeme	nt		Masonry	Rei	nforcement Ma	isonry
Quality Control									
				INSPE	CTION				
STARTED @: 2	500 00	. 1st TRUCK	BATCHED: 7		- 1	THOD OF PL	ACEMENT: F	1/4/12	
					-			,	
a l	+ P	T CONC	rete pla South	<u>Cem</u> 1	ENT.	אסי קכן ה ב	1 mately	120	10 705
Co basem	PUIL TOO	tings -	SOUTH	bu	11011	ny a re	OTING @	Level	1GHO
Cine 1-1	_	f. 5-1		, /		t. '/ -			
Pump +1	<u> </u>	bralte di	own + h	1 a d	to	Tail G	rate con	crete	into
footing u									
were 5	tar ting	TU 90	past	the	90	min. r	equirem	ent - 1	ejected
ONE Truc	K# C	691	<u> </u>						
Trucks u	vere	comina	in wit	h c	XCP.	15/04 S	lump -	colled a	batch
,		,	rrected.				/		
Used E	lectri	c Vibra	ton for	001	9 50/1	dation			
Concrete	tech	AICIÓIA M	onde sa	40 01	105	14			
Con Cr 4 i c	, (CA)	II CIGOL P	100 - 29	en p			****		
			- · · ·						
· · · · · · · · · · · · · · · · · · ·	1			SAN	iPLES				
SUPPLIER: Ko	berts	<u> </u>	MEACHDED		-		1		TEMPEDATURE
MIXED NO. T	ICKET#	DESIGN SLUMP	MEASURED SLUMP	ADMI	XTURE	DESIGN PSI	CUBIC YARDS	SPECIMENS	AMB CONC.
CHJ 05-370									
						_			
Additional Page	(Page #) Cl	 И			REPO	RT Conta	ins Not Contain	Non-C	Compliant Items
		of Complianc					um of 4 hours for work		
I declare under penalty of p personal knowledge the wor installed in compliance with t	k during the peri	od covered by this r	eport has been perforn		If inspect	or is called to a projec	t and no work is perform	ed, a 2 hour minimum	charge will be applied.
Inspector's Name_	Gara	don Leu	415		Appro	ved/Authorized	i by	b- - <	1
Inspector's Signatu	re	rdon o	Peris				(F	ROJECT SUPERINT	NOEND
	pector's License # 5009669-84 Submitted by								<u> </u>



3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

TESTING ENGINEERS	Ins	spectio	n Repor	t			/ 1 */ /3). 	,67	717/33	00-3000
INSPECTOR CODE G. DRAWSTETTICAL	JOB NUMBER 425		DATE 2 - 1	7-04	,	М	Ť	W	Т	义	s s
JOB NAME CHASS BLA	1-1	·	BUILD PERMIT	NUMBER / DSA	A / OSHPD AF	PP. FILE	# #		JURISE	ICTION	
ADDRESS CANGONC	Direct al CITY VISOS	dis	GENERAL CON	TRACTOR	100						
ARCHITECT DAYL	ENGINEER . LI BOUGE	منیسدد ده	SJ SUBCONTRACT	OR (If Any)							
REQUIREMENTS: Limit of one job n			entify all work	by type and	SPECIFIC	C locat	ion. N	lon-com	pliant	work m	ust be
specifically identified. Communication with project designers, building and project designers.			n-compliant it	ems must be	e listea, re	cora co	onvers	ations	ano c	ommunic	
75011145	157	HOU			TIME IN				TIN	IE OUT	_
REGULAR	1.5X		X		TIME IN	·		12	4	P Pan	,
0 1			· <u> </u>								
Re-Inspection	Show-Up	Only _	<u> </u>			Exper	ises _				
Reinforcement Concrete	Concrete Placem	ent	D	lasonry		∏ Re	inford	cemen	t Mas	sonry _	
Quality Control	Administration	Prestr	ess/Post Te	nsion	<u> </u>	Other	170		کی ر	069	
		INSPE	CTION								
STARTED @: 2'00 Am	1st TRUCK BATCHED:		METHO	DD OF PL	ACEMEN	IT: /	Pur	ZP)			
A	ssisted Dusnu	for G									
Beck	ssisted Despu	0/1	FOUNCE	stina	Ca	41	in	:		_	
, , , , , , , , , , , , , , , , , , , ,	87,000	7	<u> </u>	.,,, -			0		-		
	5 54ks o	L (V	- Linich	-ce Pa	ert						
	7 7-13 0	, ,	9111000		<u> </u>						
# 1	# >	# 3	#	4	45	<u>۔۔۔۔</u>		-			
Airo 42°	40'			44"	52	20					_
Conci 60°	60'	bo			be	0		······································			
5/11/20 41/2	* 5° "			53/4	<u>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</u>	/ //					
AREA MACIN C/		D/	2	7/2	RI	3.5°	•			<u>.</u> ,	
MINEN JIMEE C/		~		0/	<u>'9/ .</u>	<u>ر. , ر</u>					
											
								<u>.</u>			•
		SAM	IPLES								
SUPPLIER:		- 									
MIXED NO. TICKET # DE	ESIGN SLUMP MEASURED SLUMP	ADMIX	KTURE D	ESIGN PSI	CUBIC	/ARDS	SI	PECIME	NS_		CONC.
CHI05370	_										
Additional Page (Page #) CM		<u> </u>	REPORT	Conta				N	on-C	omnliai	nt Items
Additional Page (Page #) CM			TIEF OTT	Does	Not Conf	tain			011 0	- (a	11 15 0
I declare under penalty of perjury that all of the	of Compliance above statements are true, and that of	of my own	All inspections If inspector is c								
personal knowledge the work during the period installed in compliance with the approved plans,	specifications and all applicable codes				1			1)	1		
Inspector's Name Lang	1. 7 84 12	-	l		1)		1			*
//	3. ISRAPNSTETT		Approved/	Authorized	by 📗	10			<u> </u>	1	
Inspector's Signature <u>Yar</u>	5. BRANSTETT. Librantita 01041455	5	Approved/	Authorized	d by _	10	(PROJE	CT SUP	RINTE	NDENT)	



TESTING ENGINEERS

Inspection Report

3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

INSPECTOR CODE		JOB NUMBER	05-14	25	DATE	2-20-6	26 4	T W T	FSS	
JOB NAME (/ C S	? Ci	hass	00 110	~ /	1	RMIT NUMBER / DSA	A / OSHPD APP. FILE#	JUBIS	DICTION , VEVSI de	
ADDRESS - Can v	ion dra		Rivers	ide	GENERA	L CONTRACTOR 5	J. Am	02050	(1)	
ARCHITECT		ENGINEER	1(10(0)	101	SUBCON	TRACTOR (If Any)		ast 5t	ا ۾ مر	
REQUIREMENTS: Limit specifically identified. Co with project designers, b	mmunication (RFI, Sketch	, etc.) voiding pr	evious no	lentify all on-compli	work by type and ant items must be	SPECIFIC location	on. Non-compliar	nt work must be communications	
					URS					
REGULAR 4		1.5X		2	2X		7:00 an		OO am	
Re-Inspection			☐ Show-Up	Only	<u> </u>					
Reinforcement Cor										
Quality Control									-	
INSPECTION										
STARTED @:	1	st TRUCK	BATCHED:		ME	THOD OF PL	ACEMENT:			
In proc-	e55 0-	fins	talling	re	infe	orcem en	+ for	North	brilding	
busement		Sheav		-	•		Grid		4/12-16	
+ 16/ M	-N	De to	ils E				1+3/		, +	
CN2 co	lumn	sch	edule			300			,	
work ongoing										
				SAN	IPLES					
SUPPLIER:					-					
MIXED NO. TICK	ET# DESI	GN SLUMP	MEASURED SLUMP	ADMI	XTURE	DESIGN PSI	CUBIC YARDS	SPECIMENS	TEMPERATURE AMB CONC.	
Additional Page (Pa	age #) CM _				REPO	RT Conta	ins Not Contain	Non-C	Compliant Items	
Ce I declare under penalty of perjur personal knowledge the work du installed in compliance with the a	ring the period co	ove statements	are true, and that o				num of 4 hours for work t and no work is perform			
Inspector's Name		, ,			Appro	ved/Authorized	1 by	<		
Inspector's Signature	Doz	don:	Jewis				(F	PROJECT SUPERINT	NO	
Inspector's License # _					Subm	itted by		126		



3035 S. Harbor Blvd.

Melleng	Santa Ana, CA 92704							
TESTING ENGINEERS		Inspecti		port		/14/556-586/	• 714/556-5868	
INSPECTOR CODE	JOB NUMBER 05-	1425	DATE	2-21-0	(a) M	J. W T	F S S	
JOB NAME U.C.R.	Chass		BUILD PE	ERMIT NUMBER / DS	SA / OSHPD APP. FILE	JURI	SDICTION	
ADDRESS 3615 Canvan	Crest dr. Rivi	ersido	GENERA	L CONTRACTOR	J. Amo		versiae	
ARCHITECT LEO DALV	ENGINEER SAIFUL/BO		SUBCON	ITRACTOR (If Any)	outh Co			
REQUIREMENTS: Limit of or specifically identified. Commu	ne job number, one permit numb inication (RFI, Sketch, etc.) void ig and permit granting authority	er per sheet. I	dentify all on-compl	work by type ar	d SPECIFIC Jose	ion Non complia	ant work must be communications	
		НО	URS					
REGULAR	1.5X		2X		TIME IN		IME OUT	
8					7:00	3:	00	
Re-Inspection		w-Up Only _				ses		
Reinforcement Concrete	e Concrete Pla	acement	<u> </u>	☐ Masonry _		inforcement M	asonrv	
	_							
			ECTION					
STARTED @:	1st TRUCK BATCHE	:D:	ME	THOD OF PL	ACEMENT:			
Absence +in	f vernfareamen	+ -/-				1 11:	1 Pri	
Column 50	f reinforcemential Grid Lin		12-	707	NOTTH	Biolding	<u> </u>	
Calumn & G	mid / Spice 210	7 9 7 - 7	, ,	per s	CHEAVIE	CN14/	<u> 3 - 3 00</u>	
Column & G	rid Line 0-13	6 1	. <u> </u>	HEADIR	CN12/		<u> </u>	
Column & Co	vid Line R-1	15 3-	V 501	nedule (_ N 5 /	1 - 100	4	
	perdetail 1/	<u> </u>	1/(-olimn	7745	+ @ 4	0, C.	
per detail 1		11 100 100	- <u>- </u>	/ /	ρ	# _ /		
DE T	of drilling 1	XIO	en	1bed men	+ TON	7 ba.	rs [*]	
per KFIT	76+77@	Shear	Wa	1/5 11	orth bi	ild Ing		
basement G	rid Lines 4/		170	/ 1-3	3,5/		23	
12/ N-N-6	, L/12-17		/ jv/l	-N , i	17-18	7, 19	/12.2-13.2	
holes were b	rushed + clea	nedow.	t_w	ith com	pressed	air-ac	ceptuble	
Epoxy Tomos	ryow	- · · · · · · · · · · · · · · · · · · ·					,	
		SAM	PLES					
SUPPLIER:		-						
MIXED NO. TICKET #	DESIGN SLUMP MEASUR	I ALIMAIS	KTURE	DESIGN PSI	CUBIC YARDS	SPECIMENS	TEMPERATURE	
	SLOW!	<u> </u>					AMB CONC.	
							 	
					ins			
Additional Page (Page #)			REPOR	OT — .	Not Contain	Non-C	compliant Items	
declare under penalty of perjury that all	tion of Compliance	that of my own	All inspect	tions based on minim	um of 4 hours for work and no work is perform	performed over 4 hou	rs = 8 hours minimum.	
ersonal knowledge the work during the	period covered by this report has been plans, specifications and all applicable of	performed and	nopeoto	s canca to a project	Company work is perioring	ou, a z nour nanimum	onarge will be applied.	

Approved/Authorized by_

Submitted by _

(PROJECT SUPERINTENDENT)

Inspector's Name Gordon Lewis

Inspector's License # 5009669 - 84

Inspector's Signature



TESTING ENGINEERS	ins	spection	on Report						
INSPECTOR CODE	JOB NUMBER 05-142	5	DATE 2-2	2 - 0	(a M	T W T	F S S		
JOB NAME U.C.R.	Chass		BUILD PERMIT NU	MBER / DSA	A / OSHPD APP. FILE#	JUBIS A	DICTION Verside		
3615 CANVON C	rest dr. Riversia	10	GENERAL CONTRA	ACTOR S.	d. Amore	250			
ARCHITECT Daly	Saiful/Bougu		SUBCONTRACTOR	ł (If Any)		ast 5t	001		
REQUIREMENTS: Limit of one j	ob number, one permit number per	sheet. Id	lentify all work by	y type and	SPECIFIC location	on. Non-compliar	nt work must be		
	cation (RFI, Sketch, etc.) voiding pre and permit granting authority official		n-compliant item	is must be	e listed, record col	nversations and (communications		
		HO	URS						
REGULAR	1.5X	2	2X	9	TIME IN		ME OUT		
δ					7;00	1 2	:30		
Re-Inspection	Show-Up	Only _		-	Expens	ses			
Reinforcement Concrete _	Concrete Placeme	ent		sonry		nforcement Ma	isonry		
Quality Control	Administration] Prestr	ess/Post Tens	ion	Other				
		INSPE	CTION						
STARTED @:	1st TRUCK BATCHED:	METHOD OF PLACEMENT:							
Completed Re	inforcement on	Col	lumns	+ F	inal ins	pectión	1		
before closine	a with forms	for	15+ po	ur (@ Grio	Lines			
(Q-12) (R-15.	() (Q-17) (P	-19) (KI-1	17,9,) Reinfo	rcement	- per		
schedule Nor	th building on	5-	300/	Lap	splice	Der 5	chedule		
detail 1/5-3	of ties/a	Vea	s were	c léa	n of L	obse de	ori +		
dirt. Above	acceptable per	app	roved	o lan	+ deta	ils			
Observation o	acceptable per + Epoxy +7 @	12	1000	p-e	r dRF[#77 6	2 Grid		
Lines 12/M.9-	N.5, R/12./	Ch	lanaed	To	2'0,0	C. Q	Grid		
Lines P/17.2.	- 18,7, 17/1	V1-1	V, 2'	one	cruter 1	rending	annorah		
holes were dril		X I	2" emb	red m	ent + cle	aned w	1+4		
nylon brush + c	ompressed air/	1150	d simp	50h	set 22-	EXP. 0	6-07		
/									
		SAM	PLES						
SUPPLIER:	·								
MIXED NO. TICKET #	DESIGN SLUMP MEASURED SLUMP	ADMIX	(TURE DESI	GN PSI	CUBIC YARDS	SPECIMENS	TEMPERATURE AMB CONC.		
	000,111				-		7,1112		
Additional Page (Page #) C	CM		REPORT	Conta	ins Not Contain	→ ¬(Non-C	compliant Items		
	on of Compliance				um of 4 hours for work		rs = 8 hours minimum.		
	of the above statements are true, and that of eriod covered by this report has been perfor ans, specifications and all applicable codes		If inspector is called	to a project	and no work is perform	ed, a 2 hour mirlimum	charge will be applied.		
Inspector's Name <u>Gor</u>	don Lewis		Approved/Au	ıthorized	by_)_ \-			
Inspector's Signature	orden Jewis				(P	ROJECT SUPERINTI	ENDENT)		
Inspector's License #	U		Submitted by	<i>'</i>					

See Miller on the see



TESTING EN			Ins	pection	on Rep	oort				
INSPECTOR CODE		JOB NUMBER	1425		DATE 2	-23	-01	M	T W T,	FSS
JOB NAME	C.R.	Choss			BUILD PE	RMIT NUME	BER / DSA	/ OSHPD APP. FILE		DICTION VERSIDE
ADDRESS 3615 C ARCHITECT Leo D	anyon (Crest dr. ENGINEER Saifu job number, one pe		vet	SUBCONT	CONTRAC	<u> </u>		roso	pe/
specifically iden	tified. Communic	cation (RFI, Sketch, and permit granting	etc.) voiding pre	vious no						
				HOU						
REGUL	_AR	1.5X		2	X		-	TIME IN		ME OUT
								1,00		20
		Cor			-					
Quality Con	itroi	Administratio	n			it rensio	n	Otne	r	
·			<u>_</u>	INSPE	CTION				 –	
STARTED @:		1st TRUCK			<u> </u>			ACEMENT:	B	
Obser!	rution o	of Epox	y #7@	18	<u>- V</u>	erti	cul	each	Face in	1 +0
The too	ting @	Grid C	ine L/	//7.	·5 -	12,	, 0	Irilled	1 diam	o tor
		neut per								
Epoxy set 22 / Epoxy # 11 dowels @ south bldg. Grid Line										
Epoxy	50+22/	Epoxy	y # 11	dow	els (@ <u>S</u>	007	h bldg	- Grid	1 ine
(D-3)	(B,4.	-2.3) p	er KF	<u></u>	184	- 15		Epoxy	<u> </u>	8
dowels	@ Gr	id Line	B.8-8	?, / ·	- /	8 . 6	mb	ed ment	oh 1	178
dowels					-		//		<i>i</i> .	
		s on bld								
adjust	5 +1 rry	ns Ties +	SOME	place	e5 i	nove	+0.	rm - in	progres	· <i>S</i> '
bldg 50	with the	e ties on	colum	n5	are	beng	g ch	ranged.	trom 12	To
70 wh	nch wov	ild give	Correct	<u> </u>	avan	1CES			-	
		<u></u>		SAM	PLES					
SUPPLIER:										
MIXED NO.	TICKET#	DESIGN SLUMP	MEASURED SLUMP	ADMIX	KTURE	DESIG	N PSI	CUBIC YARDS	SPECIMENS	TEMPERATURE AMB CONC.
Additional F	age (Page #)	СМ			REPO	RT 🛮	Conta Does	ins Not Contain	Non-	Compliant Items -
personal knowledge t	ity of perjury that all the work during the e with the approved p	ion of Complianc of the above statements period covered by this re plans, specifications and a	s are true, and that o eport has been perfo all applicable codes	f my own rmed and	If inspect		o a project	and no work is perfo		ours = 8 hours minimum. In charge will be applied.
	mature - カ	ordon	b wei		Abbio	veu/Auti	iorizea	.by	(PROJECT SUPERIN	TENDEM
opootor o Olg	spector's Signature Dordon Jewis (PROJECT SUPERINTENDEN)									

Submitted by _

Inspector's License # 5009669-84



Inspector's Name_

Inspector's Signature Inspector's License #

3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

714/556-5867 • 714/556-5868 **Inspection Report TESTING ENGINEERS** INSPECTOR CODE 24-06 JOB NAME BUILD PERMIT NUMBER / DSA / OSHPD APP. FILE# RIVErside GENERAL CONTRACTOR SUBCONTRACTOR (If Any) REQUIREMENTS: Limit of one job number, one permit number per sheet. Identify all work by type and SPECIFIC location. Non-compliant work must be specifically identified. Communication (RFI, Sketch, etc.) voiding previous non-compliant items must be listed, record conversations and communications with project designers, building and permit granting authority officials. **HOURS** REGULAR 1.5X TIME IN TIME OUT 7:00 2:30 Re-Inspection Show-Up Only ☐ Expenses A Reinforcement Concrete _____ Concrete Placement ____ Masonry ____ Reinforcement Masonry ____ Quality Control _____ Administration ____ Prestress/Post Tension ____ ☐ Other **INSPECTION** STARTED @: 1st TRUCK BATCHED: METHOD OF PLACEMENT: reinforcement **SAMPLES** SUPPLIER: **MEASURED** TEMPERATURE TICKET# MIXED NO. **DESIGN SLUMP ADMIXTURE DESIGN PSI CUBIC YARDS SPECIMENS** SLUMP AMB CONC. ☐ Contains REPORT Additional Page (Page #) CM _ Non-Compliant Items ∠ Does Not Contain Certification of Compliance All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours minimum. I declare under penalty of perjury that all of the above statements are true, and that of my own If inspector is called to a project and no work is performed, a 2 hour minimum charge will be applied. personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans, specifications and all applicable codes

ACCOUNTING

Approved/Authorized by

Submitted by

(PROJECT SUPERINTENDENT



3035 S. Harbor Blvd. Santa Ana, CA 92704

714/556-5867 • 714/556-5868 **Inspection Report TESTING ENGINEERS** INSPECTOR CODE -06 JURISDICTION RIVEYSIDE BUILD PERMIT NUMBER / DSA / OSHPD APP. FILE Chass GENERAL CONTRACTOR SUBCONTRACTOR (IF Any) REQUIREMENTS: Limit of one job number, one permit number per sheet. Identify all work by type and SPECIFIC location. Non-compliant work must be specifically identified. Communication (RFI, Sketch, etc.) voiding previous non-compliant items must be listed, record conversations and communications with project designers, building and permit granting authority officials. **HOURS** REGULAR TIME OUT 1.5X TIME IN 7:00 2:00 Show-Up Only _ Re-Inspection Expenses Reinforcement Concrete _____ Concrete Placement ____ Masonry ____ Reinforcement Masonry ____ ____ Prestress/Post Tension ____ Other Quality Control _____ Administration _ INSPECTION STARTED @: 1st TRUCK BATCHED: METHOD OF PLACEMENT: on going **SAMPLES** SUPPLIER: MEASURED TEMPERATURE MIXED NO. TICKET# **DESIGN SLUMP** ADMIXTURE DESIGN PSI **CUBIC YARDS SPECIMENS** SLUMP AMB CONC.

Certification of Compliance

Additional Page (Page #) CM

I declare under penalty of perjury that all of the above statements are true, and that of my own personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans, specifications and all applicable codes

Inspector's Name

Inspector's Signature Inspector's License #

All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours minimum. If inspector is called to a project and no work is performed, a 2 hour minimum charge will be applied.

Non-Compliant Items

(PROJECT SUPERINTENDEN

Approved/Authorized by

Contains

✓ Does Not Contain

Submitted by _

REPORT



TESTING ENG	SINEERS		714/556-5867 • 714/556-586 Inspection Report								868		
INSPECTOR CODE		JOB NUMBER	1425		DATE 3	101/06		М	[⊤] ¾'	Т	F	S	S
JOB NAME	R. C.	1455			1	RMIT NUMBER / DSA		P. FILE#	! (JURISI 121	DICTION	sid.	e
ADDRESS 3615	canyon		PINERS	cide	GENERAL	CONTRACTOR 5	·). A	4 m	oros	.12 1.		- · •	
ARCHITECT	Carryon	ENGINEER	<u> </u>		SUBCON	TRACTOR (If Any)	outh		past	57	- e	-	
specifically identi	ified. Communic	ob number, one pe ation (RFI, Sketch and permit granting	, etc.) voiding pre	evious no	lentify all on-compli	work by type and ant items must be	SPECIFIC e listed, rec	locati	on. Non-co	omplian s and c	t work commu	must b	e ns
					URS								
REGUL	AR .	1.5X		2	2X	+	7,00		-		D O		
<u> </u>							,00			10	00		
Re-Inspectio	on		☐ Show-Up	Only _			DE	xpen	ses		. <u> </u>		
2 Reinforceme	ent Concrete _	Co	ncrete Placem	ent		Masonry		Rei	nforceme	ent Ma	sonry		
Quality Cont	rol	Administration	n [] Prestr	ess/Pos	t Tension	🗆 🤈	Other					
				INSPE	CTION								
STARTED @:		1st TRUCK	BATCHED:		ME	THOD OF PLA	ACEMENT	Γ:	-		-		
Sure.	form (Closing	140/18	wit	b f	orms a	G	rid	11016	2 /2	2/1	1.6-	
		e L/16	· -						_		•	د مرمرد	
SIZP /	· · · · · · · · · · · · · · · · · · ·	tails A	15-50	3	B	5-504	1/	15-	601		ap	<u> </u>	
size per details A/5-503, B/5-504, 1/5-601, 20ps splices per schedule 4/5-002, Clearances acceptable.													
Mud from rain was cleaned off footing with high pressure													
water-		. 1 1	CIFANA	0 0	1 /		, ,, ,,		1197	P			
4.1	ution o	1 -	# -	7 d	5 1010 l	5 0 5	1.004	10.00	110	2	, m.	~	
		~ 7		_			•		113 B 1	<u>a</u>	5	<u>~-</u>	
a Gri	FI 7-	,	- 17 - 17 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	111	1 ^	3.5/	X 12	91	<u> </u>	<u>-</u>	<i>)</i> ,	<u>,</u> L	
DAY IC	- 	7-181/	711114	1					mbe			<i></i>	
Clanea	noles		1th Ny	1/3 n	br	ush + e	<u>ompr</u>	<u> 45.</u>	571	air			
USPOI S	mpson	set £	poxy_	app	rove	d-EX	pda	<u>T </u>	06				
													
	·- <u>-</u>			SAM	IPLES								
SUPPLIER:		,					,		,				
MIXED NO.	TICKET#	DESIGN SLUMP	MEASURED SLUMP	ADMI	XTURE	DESIGN PSI	CUBIC YA	ARDS	SPECIA	MENS		PERATU 3 CON	
Additional Pa	age (Page #)	CM			REPO	RT Conta	ins Not Conta	ain		Non-C	ompli	ant Ite	ems.
		on of Complianc		of museum		ctions based on minim							
personal knowledge th	e work during the p	of the above statement eriod covered by this r lans, specifications and	eport has been perfo		It inspect	tor is called to a projec	and no work is	s perforn	ned, a 2 hour	minimum	cnarge v	иш ве ар	plied.
Inspector's Nan	ne Gor	don L	ewis		Appro	ved/Authorized	I by)a	1	, 4○	ال ال		$\widehat{\Omega}$
Inspector's Sigr	nature	Tordon	Jews					(1	PROJECT St	HINI	ENDENT		ـــــــــــــــــــــــــــــــــــ

Submitted by _____

Inspector's License # 5009669-48



TESTING ENGINEERS	Inspection	on Report	T W F S S
Van Histine	JOB NUMBER - 1425	DATE 3/2/06 M BUILD PERMIT NUMBER / DSA / OSHPD APP. FILE#	T W F S S
JOB NAME R Chass	Building		
3615 Canyon	Gest Se.	GENERAL CONTRACTOR WM 0 TOS SUBCONTRACTOR (If Any)	5 D
ABCHITECT	ENGINEER C		on Non-compliant work must be
anneifically identitied Communicat	d permit granting authority officials.	dentify all work by type and SPECIFIC location on-compliant items must be listed, record cor	nversations and communications
		IURS 2X TIME IN	TIME OUT
REGULAR	1.5X	0630	1430
	Chaw In Only		
Re-Inspection	Show-up Only _	Expens	nforcement Masonry
Reinforcement Concrete	Concrete Placement		morcement wasonly
Quality Control			
		ECTION	Va
STARTED @: 0630	1st TRUCK BATCHED: Na	METHOD OF PLACEMENT: A	5/4
		1: A 11	
CONTINUO	us, observa		00/010
placement	+ & tieing		ceing.
Isteel	it severay	locations	4niouzn
dol tuo	site.		
J			
Work in	o trogress	•	
	<u> </u>		
,	SA	MPLES	
SUPPLIER: N/a			
MIXED NO. TICKET#	DESIGN SLUMP MEASURED SLUMP ADI	MIXTURE DESIGN PSI CUBIC YARDS	SPECIMENS TEMPERATURE AMB CONC.
WINZED NO.	SLOWP	1/1/1/	
$ \lambda$	-X-X	X /X /X	X
	1	Contains	Non-Compliant Items
Additional Page (Page #)		REPORT Does Not Contain	
that all of porium that all of	on of Compliance of the above statements are true, and that of my ov	All inspections based on minimum of 4 hours for wo ff inspector is called to a project and no work is performance.	rk performed over 4 hours = 8 hours minimum. rmed, a 2 hour minimum charge will be applied.
personal knowledge the work during the p installed in compliance with the approved pl	eriod covered by this report has been penorined at	nd D	
Λ	law Alstine.	Approved/Authorized by	A DILIBORATION OF THE PARTY OF
	Di ala	_	(PROJECT SUM SINTENDENT)
سو .	1114634-49	Submitted by	
Inspector's NameInspector's Signature	104634-49	Approved/Authorized by Submitted by	U -



Inspection Report

3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

TESTING ENGINEERS	Inspection			-	T \$52 5	
NAPECTOR COMPASTING		DATE 3/3/06	M	W	I S	
JOB NAME ()CR Ch	2 1 1	BUILD PERMIT NUMBER / DSA /		ì	IURISDICTION	
ADDRESS CONVEY	Crest Br.	GENERAL CONTRACTOR	MOTOS	ბ		
ARCHITECT	ENGINEER / Bassa 126+	SUBCONTRACTOR (IF AITY)				
REQUIREMENTS: Limit of one j	i washan an abaat la	entify all work by type and	SPECIFIC location	. Non-com	pliant work mu	st be ations
Langaifically identitied Committie	ob number, one permit number per sheet. It cation (RFI, Sketch, etc.) voiding previous no and permit granting authority officials.	n-compliant items thust be				
		JRS	TIME IN		TIME OUT	
REGULAR	1.5X 2	×	TIME IN		430	
			30			
Re-Inspection	Show-Up Only _		Expense	es		
Reinforcement Concrete	Concrete Placement		Rein	forcemen	t Masonry _	
Quality Control	Administration Prestr	ess/Post Tension	Dther _			
_ ,		CTION				
OTABLED & A / 3A	1st TRUCK BATCHED: N q	METHOD OF PLA	CEMENT: N	9		
STARTED @: 0630	IST THOOK BATOTIES. TO A					
0 -11	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	A 110	0/00	e me	at de	
CONTINUOU		1	plac			-
Heing o	f reintorcein	og stee	ar	<u> 267</u>	rerai	
/ocations	s through o	and the	rect.			
	0				+ (
Closing	of cast in pla	<u>ce walls</u>	also	40	RING	
Nace						
PIACO.						
<u></u>						
Mark in	DEACRES.					
WOLK IN	progress.					
1	SAM	MPLES				
SUPPLIER: NA					TEMPE	DATURE
MIXED NO. TICKET #	DESIGN SLUMP MEASURED ADM	IXTURE DESIGN PSI	CUBIC YARDS	SPECIM		CONC.
1////		$\Lambda / \mid \Lambda / \mid$	1/	_1/	/ \	
HX X	/ X / X /	X /X	X	/X		<u> </u>
, ,	1 0	Conta	ins	_ /	Non-Complia	nt Itome
Additional Page (Page #		REPORT Does	Not Contain	<u> </u>		in nems
Certifica	ation of Compliance	All inspections based on minim If inspector is called to a projec	um of 4 hours for work	performed ov	er 4 hours = 8 hour	rs minimum. Il <u>be</u> applied.
I declare under penalty of perjury that a personal knowledge the work during the installed in compliance with the approved	all of the above statements are true, and that of my own e period covered by this report has been performed and plans, specifications and all applicable codes	it inspector is called to a project		\		
	las Alstine	Approved/Authorized	1 by	4	\leq	
Inspector's Name	KA II JOA)	Approved/Additionzed	. Dy(F	ROJECT 9	PERINTENDENT)	——— 花[藍]
Inspector's Signature	1 ALI 211_49	Submitted by			برد. مشکلت از درجی	
Inspector's License #	107637-71	Submitted by	_,		11-12-	

ACCOUNTING



714/556-5867 • 714/556-5868 **Inspection Report TESTING ENGINEERS** INSPECTOR CODE -06-06 BUILD PERMIT NUMBER / DSA / OSHPD APP. FILE JURISDICTION Chass RIVerside GENERAL CONTRACTOR 5. SUBCONTRACTOR (If Any) **REQUIREMENTS:** Limit of one job number, one permit number per sheet. Identify all work by type and SPECIFIC location. Non-compliant work must be specifically identified. Communication (RFI, Sketch, etc.) voiding previous non-compliant items must be listed, record conversations and communications with project designers, building and permit granting authority officials. **HOURS** TIME IN TIME OUT 2X REGULAR 6:30 2100 Re-Inspection Show-Up Only Expenses Reinforcement Concrete _____ Concrete Placement ____ Masonry ____ Reinforcement Masonry ____ Quality Control _____ Administration ____ Prestress/Post Tension ____ Other INSPECTION 1st TRUCK BATCHED: METHOD OF PLACEMENT: STARTED @: tor concret SAMPLES SUPPLIER: **MEASURED** TEMPERATURE **DESIGN PSI CUBIC YARDS SPECIMENS** MIXED NO. TICKET# **DESIGN SLUMP ADMIXTURE** AMB CONC. SLUMP ☐ Contains REPORT ☐ Additional Page (Page #) CM Non-Compliant Items Z Does Not Contain

Certification of Compliance

I declare under penalty of perjury that all of the above statements are true, and that of my own personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans, specifications and all applicable codes

Inspector's Name Gordon Lewis

Inspector's Signature Dordon Leur

Inspector's License # 500 9669-84

All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours minimum. If inspector is called to a project and no work is performed, a 2 hour minimum charge will be applied.

Approved/Authorized by

.. .

(PROJECT SUPERINTENDENT)



3035 S. Harbor Blvd. Santa Ana, CA 92704

714/556-5867 • 714/556-5868 **Inspection Report TESTING ENGINEERS** INSPECTOR CODE 3-07-06 BUILD PERMIT NUMBER / DSA / OSHPD APP. FILE# werside GENERAL CONTRACTOR SUBCONTRACTOR (If Any) REQUIREMENTS: Limit of one job number, one permit number per sheet. Identify all work by type and SPECIFIC location. Non-compliant work must be specifically identified. Communication (RFI, Sketch, etc.) voiding previous non-compliant items must be listed, record conversations and communications with project designers, building and permit granting authority officials. **HOURS** TIME IN TIME OUT REGULAR 1.5X 2X 100 am 30 ☐ Show-Up Only Re-Inspection Expenses Concrete Placement ___ ☐ Masonry ___ Reinforcement Masonry _ Reinforcement Concrete _____ Administration Prestress/Post Tension _ 🗍 Other . INSPECTION METHOD OF PLACEMENT: STARTED @: 1st TRUCK BATCHED: SAMPLES SUPPLIER: obertson S TEMPERATURE **MEASURED CUBIC YARDS SPECIMENS DESIGN SLUMP ADMIXTURE DESIGN PSI** MIXED NO. TICKET# AMB CONC. SLUMP

Certification of Compliance

Additional Page (Page #) CM

Inspector's License #_

I declare under penalty of perjury that all of the above statements are true, and that of my own personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans, specifications and all applicable codes

Inspector's Name_

50096

Inspector's Signature

If inspector is called to a project and no work is performed, a 2 hour minimum charge will be applied.

REPORT

Approved/Authorized by

Contains

Does Not Contain

Submitted by

SUPERINTENDENTE

All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours minimum.

Non-Compliant Items



Inspector's Signature

Inspector's License #

5009669-84

Inspection Report

3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

TESTING ENGINEERS		mopection	Hickort							
INSPECTOR CODE	JOB NUMBER - 14	みり	3-0	8-06	МТ	\\ \times \\ \t	Т	F S	3 S	
JOB NAME U.C.P. C	hass		UILD PERMIT NUI	MBER / USA / OSHPD AP	P. FILE#		JURISDIC PLV	CTION 2 245	ide	
	rest dr. RIV	erside	ENERAL CONTRA	S, J. A	more	050				
Lea Daly	Salful/B	30090 mt "	UBCONTRACTOR	South	Coas	<i>†</i> 5	teel	<i>!</i>		
REQUIREMENTS: Limit of one specifically identified. Communiwith project designers, building	job number, one permit numb ication (RFI, Sketch, etc.) void	er per sheet. Iden ling previous non-	itify all work by compliant item	type and SPECIFIC	C location.	Non-con	noliant v	work mu	ust be ations	
		HOUR	IS				70.45	- OUT		
REGULAR	1.5X	2X		TIME IN	2:30					
8				7:00	<u></u>		777			
Re-Inspection	Sho	ow-Up Only			Expenses	<u> </u>				
Reinforcement Concrete	Concrete PI	acement		sonry	Reinfo	rcemer	nt Masc	onry _		
Quality Control	Administration	Prestres	ss/Post Tens	ion	Other					
INSPECTION										
STARTED @: 1st TRUCK BATCHED: METHOD OF PLACEMENT:										
Closing wall panels @ south building Grid Line 1, 3, D, +										
A, Cleaned	dirt off foc	sting +	Rebars	with 1	righ_	pre.	55 v	re		
water let +										
15 acceptable	\mathcal{L} , \mathcal{L}	10 0/ 1		-						
in process of	of installing	reinf) OYCPM LI	nt for.	42"	der	op f	-00t	ling	
#9 (T+B)	@ 12" each "	vay-re	f. 5-1	iol Gri	1 411	ine_	<u> 3- f</u>	55		
In process of #9 (T+B) (- for footin	14 @ G	rid Liv	ie F-2	+ h	1 - 3	d	e ta	1/5	
FS7 + FS9	15-200									
work ongoi										
<u> </u>	719									
		-				,				
		SAMP	LES							
SUPPLIER:										
				1	1		1.			

TEMPERATURE MEASURED **CUBIC YARDS** SPECIMENS MIXED NO. TICKET # **DESIGN SLUMP** ADMIXTURE **DESIGN PSI** AMB CONC. SLUMP ☐ Contains Non-Compliant Items **REPORT** Additional Page (Page #) CM Does Not Contain Certification of Compliance All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours minimum. I declare under penalty of perjury that all of the above statements are true, and that of my own personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans, specifications and all applicable codes If inspector is called to a project and no work is performed, a 2 hour minimum charge will be applied. Inspector's Name Gordon Approved/Authorized by_ (PROJECT SUPERINT

Submitted by _







Inspection Report

							T W T	FSS			
INSPECTOR CODE	JOB NUMBER	1425		3	-09-06	M	<u> </u>				
JOB NAME UCR	Chass			BUILD PERMIT NUMBER / DSA / OSHPD APP. FILE# JUBISDICTION KIVErside							
ADDRESS CANV	on crest d	r Piver	cido		CONTRACTOR	1. Amor	050				
ARCHITECT CALL	ENGINEER	1/Roy	1900	SUBCONTRACTOR (IF ANY) South Coast steel							
REQUIREMENTS: Limit of on	e job number, one per	mit nuimhar nar s	haat Ida	entify all v	work by type and	SPECIFIC locatio	n. Non-complian	t work must be			
specifically identified. Commu with project designers, buildin	nication (RFI, Sketch,	etc.) volding prev	nous nor	n-compile	int items must be	listea, recora con	versations and c	Omnunications			
			HOU	RS							
REGULAR	1.5X		2>	<		TIME IN		ME OUT			
8	1.5					6'100		30			
Re-Inspection		Show-Up	Only				es				
Reinforcement Concret	e UCor	ncrete Placeme	nt	[Masonry		forcement Ma	sonry			
Quality Control											
			INSPE								
STARTED @:	1st TRUCK	BATCHED:		- 1	THOD OF PLA						
Abservation	of Eno	KY # -	7 do	DWE	18 24	"on ce	nter @				
Grid Line -	7/A-A.8	1/ sed	Sin	n080	n set	22/dr	illed 1"	diameter			
V /2" embed	ment - cl	eaned bo	105	out	with co	movessed	air + axl	n brush			
Charles of baird	Dalama magazi .	for for	tina	25 1	- S -	101, G	rid Lini	o F-2,			
Checked reinforcement for footings ref. 5-101, Grid Line F-2, 42" deep footing Grid Line F.5-3, H-3, 3.6/J.5-K per											
details on 5-300, 5-200, 5-501 + detail 8/5-600											
attails on)	- 300 ,	11		<u> </u>	20.	10050	divid =	donzi			
) Clearance	s accepto	<u>ible - ar</u>	<u>eq3</u>	<u> </u>	TYN PROT	1 al as t		areto			
() bservation	of appro	x/matel	x /	10 0	-V. YAS.	robert:	an con	CITIE			
3000 psi 1	MIX & CH	109 37	0 @	al	bove al	rea, V	ra a ere	CTFIC			
Vibrators fo	or consolia	ation/	mod	e /	set o	+ 4 50	mples	<u>@</u>			
Grid Line 1	 2										
	-	-	SAM	IPLES							
SUPPLIER: Paker+					<u></u>						
SUPPLIER: Rober+	<u> </u>	MEASURED	ADMIX	XTURE	DESIGN PSI	CUBIC YARDS	SPECIMENS	TEMPERATURE AMB CONC.			
		SLUMP.			3000	10	4	70° 713			
CHJ05370413546	8 7	42			70.00	10		70			
								 			
			l	-	Conto	inc					
Additional Page (Page	#) CM			REPO	RT Conta	ins Not Contain	Non-	Compliant Items			
	cation of Compliand			All inspe	ctions based on minim	um of 4 hours for work	performed over 4 ho	urs = 8 hours minimum.			
I declare under penalty of perjury that personal knowledge the work during installed in compliance with the approx	the period covered by this	report has been perfo	f my own rmed and	If inspec	tor is called to a projec	and no work is perform	ned, a 2 hour minimur	n charge will be applied.			
Inspector's Name	, ,			Appro	oved/Authorized	i by	4				
Inspector's Signature	Dordon.	Jewis		'.'		(PROJECT SUPERIN	TEMBENT)			
					nitted by						
							1.5	_			

ACCOUNTING



Inspector's Signature

Inspector's License # 300966

3035 S. Harbor Blvd. Santa Ana, CA 92704 714/556-5867 • 714/556-5868

(PROJECT SUPERINTENDENT

714/556-5867 • 714/556-5868 **Inspection Report** TESTING ENGINEERS INSPECTOR CODE 7-10-06 RIVEYSIDE BUILD PERMIT NUMBER / DSA / OSHPD APP. FILE# GENERAL CONTRACTOR Amoroso SUBCONTRACTOR (If Any) REQUIREMENTS: Limit of one job number, one permit number per sheet. Identify all work by type and SPECIFIC location. Non-compliant work must be specifically identified. Communication (RFI, Sketch, etc.) voiding previous non-compliant items must be listed, record conversations and communications with project designers, building and permit granting authority officials. HOURS TIME IN TIME OUT 1.5X REGULAR 11:00 4;00 pm ☐ Show-Up Only Expenses Re-Inspection Concrete Placement _____ Masonry ____ Reinforcement Masonry ____ Reinforcement Concrete ___ Quality Control ____ Administration ____ Prestress/Post Tension ____ Other _ INSPECTION METHOD OF PLACEMENT: 1st TRUCK BATCHED: STARTED @: Lines 1, 2.6-3, 4 samples @ Grid Line **SAMPLES** SUPPLIER: Kobertsons **TEMPERATURE** MEASURED **DESIGN PSI CUBIC YARDS SPECIMENS** ADMIXTURE AMB CONC. **DESIGN SLUMP** MIXED NO. **SLUMP** 70 5000 10 42434135583 Contains Non-Compliant Items / **REPORT** ☐ Additional Page (Page #) CM _ Does Not Contain Certification of Compliance All inspections based on minimum of 4 hours for work performed over 4 hours = 8 hours minimum. I declare under penalty of perjury that all of the above statements are true, and that of my own personal knowledge the work during the period covered by this report has been performed and installed in compliance with the approved plans, specifications and all applicable codes If inspector is called to a project and no work is performed, a 2 hour minimum charge will be applied. Inspector's Name___ Approved/Authorized by

Submitted by _



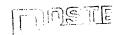


:	UCR- Chass Bu	JOB NO:	05-1425		
ESS:	3615 Canyon C	rest Drive, Riverside, C	A 92507	LAB NO:	3026
SS:	275 East Baker	Street, Suite B			
: :	Concrete	_			
TRUCTURE:		South footings @ L &	: 15		
CHJ05370	_ MEA	ASURED SLUMP (in):	5	SPEC'D PSI:	3000
N/A	_	AMBIENT TEMP:	44	CONCRETE TEMP:	60
Robertson's		_DIAMETER (in):	6	AREA (sq. in.):	28.28
2/10/2006	TIME CAST	2:38 A.M.	CAST BY:	G.Branstetter	CO.: RTE
SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE
7	2/17/2006	105,480		D	
28	3/10/2006	151,460	5,356	D	
28	3/10/2006	149,330	5,280	В	
Hold					
					5,318
Compressio	n test results w	vere satisfactory and		• •	
Compressio REMARKS:		ANM	EXF		
	N/A Robertson's 2/10/2006 SAMPLE AGE 7 28 28 Hold CONE (A), C Compressio ASTM C31, Compressio	S.J. Amoroso Co. S.J. Amoroso Co. S.J. Amoroso Co. S.S: 275 East Baker Costa Mesa, CA. Concrete TRUCTURE: CHJ05370 MEA. N/A Robertson's 2/10/2006 TIME CAST SAMPLE AGE 7 2/17/2006 28 3/10/2006 28 3/10/2006 Hold CONE (A), CONE & SPLIT (SCANTA C31, C39, C143, C17) Compression test results was ASTM C31, C39, C143, C17 Compression test results was REMARKS:	S.J. Amoroso Construction Co., Inc. S.J. Amoroso Construction Co., Inc. S.S: 275 East Baker Street, Suite B Costa Mesa, CA 92626-4504 E. Concrete TRUCTURE: South footings @ L & CHJ05370 MEASURED SLUMP (in): N/A AMBIENT TEMP: Robertson's DIAMETER (in): 2/10/2006 TIME CAST 2:38 A.M. SAMPLE AGE TEST DATE MAXIMUM LOAD (lbf) 7 2/17/2006 105,480 28 3/10/2006 151,460 28 3/10/2006 151,460 28 3/10/2006 151,460 CONE (A), CONE & SPLIT (B), CONE & SHEAR (COmpression test results were satisfactory and ASTM C31, C39, C143, C172, C1231 & C1064. Compression test results were not satisfactory REMARKS:	SS: 3615 Canyon Crest Drive, Riverside, CA 92507 S.J. Amoroso Construction Co., Inc SS: 275 East Baker Street, Suite B Costa Mesa, CA 92626-4504 E: Concrete TRUCTURE: South footings @ L & 15 CHJ05370 MEASURED SLUMP (in): 5 N/A AMBIENT TEMP: 44 Robertson's DIAMETER (in): 6 2/10/2006 TIME CAST 2:38 A.M. CAST BY: SAMPLE AGE (Ibf) STRENGTH (psi) 7 2/17/2006 105,480 3,730 28 3/10/2006 151,460 5,356 28 3/10/2006 151,460 5,356 28 3/10/2006 149,330 5,280 Hold CONE (A), CONE & SPLIT (B), CONE & SHEAR (C), SHEAR (D), CC Compression test results were satisfactory and conform to the ASTM C31, C39, C143, C172, C1231 & C1064. Compression test results were not satisfactory REMARKS:	## SAMPLE TEST DATE MAXIMUM LOAD COMPRESSIVE STRENGTH (Psi) AGE AGE 3/10/2006 151,460 5.356 D AGE AGE AGE AGE AGE AGE AGE CONE (A), CONE & SPLIT (B), CONE & SHEAR (C), SHEAR (D), COLUMNAR (E) Compression test results were not satisfactory REMARKS:





PROJECT NAME:	:	UCR- Chass Bui	lding		JOB NO:	05-1425
PROJECT ADDRE	ESS:	3615 Canyon C	rest Drive, Riverside, C	CA 92507	LAB NO:	3027
CLIENT NAME: CLIENT ADDRES	S:	S.J. Amoroso Co 275 East Baker S Costa Mesa, CA	·			
SPECIMEN TYPE	:	Concrete	-			
LOCATION IN S	TRUCTURE:		East footings @ N &	12		
MIX NO:	CHJ05370	MEA	SURED SLUMP (in):	6 3/4	SPEC'D PSI:	3000
AIR CONTENT:	N/A	_	AMBIENT TEMP:	CONCRETE TEMP:	60	
SUPPLIER:	Robertson's		_DIAMETER (in):	AREA (sq. in.):	28.28	
DATE CAST:	2/10/2006	TIME CAST	3:46 A.M.	CAST BY:	G.Branstetter	.CO.: <u>RTE</u>
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE
1	7	2/17/2006	86,280	3,051	D	
2	28	3/10/2006	139,530	4,934	В	
3	28	3/10/2006	141,020	4,987	В	
4	Hold					
<u> </u>	. ,					(0.51
	<u> </u>		<u> </u>			4,961
*	Compression ASTM C31,	on test results w C39, C143, C17 on test results w High slump	B), CONE & SHEAR (vere satisfactory and 2, C1231 & C1064. vere not satisfactory	l conform to the		
		Dr. Sanjay Gó	vil, P.E. License Nur	nber 5152	CIVII ST	





ME: UCR- Chass Building		JOB NO:		05-1425	
ECT ADDRESS: 3615 Canyon Crest Drive,		rest Drive, Riverside, C	A 92507	LAB NO:	3028
CLIENT ADDRESS:		S.J. Amoroso Construction Co., Inc 275 East Baker Street, Suite B Costa Mesa, CA 92626-4504			
:	Concrete	-			
TRUCTURE:		Westfootings @ Q &	18.7		
CHJ05370	_ MEA	SURED SLUMP (in):	6 1/2	SPEC'D PSI:	3000
N/A	_	AMBIENT TEMP:	40	CONCRETE TEMP:	60
Robertson's		_DIAMETER (in):	6	AREA (sq. in.):	28.28
2/10/2006	TIME CAST	4:48 A.M.	CAST BY:	G.Branstetter	CO.: <u>RTE</u>
SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE
7	2/17/2006	101,840		D	
28		136,250	4,818	С	
28	3/10/2006	138,890	4,911	D	
Hold					
					4,865
Compression ASTM C31,	on test results w C39, C143, C17	vere satisfactory and 72, C1231 & C1064.	conform to the	OFESSION OF WAY GOVERNMENT OF STREET	
	SS: CHJ05370 N/A Robertson's 2/10/2006 SAMPLE AGE 7 28 28 Hold CONE (A), Compression ASTM C31, Compression	S.: 3615 Canyon C S.J. Amoroso Co S: 275 East Baker S Costa Mesa, CA Concrete TRUCTURE: CHJ05370 MEA N/A Robertson's 2/10/2006 TIME CAST SAMPLE AGE 7 2/17/2006 28 3/10/2006 28 3/10/2006 Hold CONE (A), CONE & SPLIT (Compression test results w ASTM C31, C39, C143, C17 Compression test results w	S.J. Amoroso Construction Co., Inc S.J. Amoroso Construction Co., Inc S. 275 East Baker Street, Suite B Costa Mesa, CA 92626-4504 : Concrete TRUCTURE: Westfootings @ Q & CHJ05370 MEASURED SLUMP (in): N/A AMBIENT TEMP: Robertson's DIAMETER (in): 2/10/2006 TIME CAST 4:48 A.M. SAMPLE AGE TEST DATE MAXIMUM LOAD (lbf) 7 2/17/2006 101,840 28 3/10/2006 136,250 28 3/10/2006 138,890 Hold CONE (A), CONE & SPLIT (B), CONE & SHEAR (Compression test results were satisfactory and ASTM C31, C39, C143, C172, C1231 & C1064. Compression test results were not satisfactory	SS: 3615 Canyon Crest Drive, Riverside, CA 92507 S.J. Amoroso Construction Co., Inc 275 East Baker Street, Suite B Costa Mesa, CA 92626-4504 : Concrete TRUCTURE: Westfootings @ Q & 18.7 CHJ05370 MEASURED SLUMP (in): 6 1/2 N/A AMBIENT TEMP: 40 Robertson's DIAMETER (in): 6 2/10/2006 TIME CAST 4:48 A.M. CAST BY: SAMPLE AGE TEST DATE MAXIMUM LOAD COMPRESSIVE STRENGTH (psi) 7 2/17/2006 101,840 3,601 28 3/10/2006 136,250 4,818 28 3/10/2006 136,250 4,818 28 3/10/2006 138,890 4,911 Hold CONE (A), CONE & SPLIT (B), CONE & SHEAR (C), SHEAR (D), C Compression test results were satisfactory and conform to the ASTM C31, C39, C143, C172, C1231 & C1064. Compression test results were not satisfactory REMARKS: High slump	SS: 3615 Canyon Crest Drive, Riverside, CA 92507 LAB NO: S.J. Amoroso Construction Co., Inc S: 275 East Baker Street, Suite B Costa Mesa, CA 92626-4504 : Concrete TRUCTURE: Westfootings @ Q & 18.7 CHJ05370 MEASURED SLUMP (in): 6 1/2 SPEC'D PSI: N/A AMBIENT TEMP: 40 CONCRETE TEMP: Robertson's DIAMETER (in): 6 AREA (sq. in.): 2/10/2006 TIME CAST 4:48 A.M. CAST BY: G.Branstetter SAMPLE AGE TEST DATE MAXIMUM LOAD COMPRESSIVE STRENGTH (psi) 7 2/17/2006 101,840 3.601 D 28 3/10/2006 136,250 4,818 C 28 3/10/2006 138,890 4,911 D Hold CONE (A), CONE & SPLIT (B), CONE & SHEAR (C), SHEAR (D), COLUMNAR (E) Compression test results were satisfactory and conform to the specifications of ASTM C31, C39, C143, C172, C1231 & C1064. Compression test results were not satisfactory REMARKS: High slump





PROJECT NAME	•	UCR- Chass Bu	ilding		JOB NO:	05-1425
PROJECT ADDR	ESS:	3615 Canyon C	rest Drive, Riverside, (CA 92507	LAB NO:	3029
CLIENT NAME: CLIENT ADDRES	SS:	S.J. Amoroso Co 275 East Baker S Costa Mesa, CA				
SPECIMEN TYPE		Concrete	_			
LOCATION IN S	TRUCTURE:		North footings @ R	& 13		
MIX NO:	CHJ05370	_ MEA	SURED SLUMP (in):	5 1/2	SPEC'D PSI:	3000
AIR CONTENT:	N/A_	<u>-</u>	AMBIENT TEMP:	42	CONCRETE TEMP:	60
SUPPLIER:	Robertson's		DIAMETER (in):	6	AREA (sq. in.):	28.28
DATE CAST:	2/10/2006	TIME CAST	7:45 A.M.	CAST BY:	G.Branstetter	CO.: RTE
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE
1	7	2/17/2006	100,650		D	
2	28	3/10/2006	145,840			
3	28	3/10/2006	141,290	4,996	В	
4	Hold					
						5,077
*	Compressio ASTM C31,	n test results w C39, C143, C17 n test results w High slump	3), CONE & SHEAR (Pere satisfactory and 2, C1231 & C1064. Pere not satisfactory and satisfa	conform to the	• •	





PROJECT NAME	:	UCR- Chass Bu	JCR- Chass Building JOB NO:						
PROJECT ADDRI	ESS:	3615 Canyon C	rest Drive, Riverside, C	A 92507	LAB NO:	3030			
CLIENT NAME: CLIENT ADDRES	S:	S.J. Amoroso Co 275 East Baker Costa Mesa, CA							
SPECIMEN TYPE	:	Concrete	_						
OCATION IN S	TRUCTURE:		North west footings	@ 17 & Q					
MIX NO:	CHJ05370	_ MEA	SURED SLUMP (in):	6 1/2	SPEC'D PSI:	3000			
AIR CONTENT:	N/A	_	AMBIENT TEMP:	38	CONCRETE TEMP:	60			
SUPPLIER:	Robertson's		_DIAMETER (in):	6	AREA (sq. in.):	28.28			
DATE CAST:	2/10/2000	TIME CAST	6:00 A.M.	CAST BY:	G.Branstetter	CO.: <u>RTE</u>			
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE			
1	7	2/17/2006	98,760	3,492	D				
2	.28	3/10/2006	137,280	4,854	В				
3	28	3/10/2006	139,780	4,943	В				
4	Hold								
	•					4,900			
*	Compression ASTM C31,	on test results w C39, C143, C17	B), CONE & SHEAR (vere satisfactory and vere not satisfactory were not satisfactory will, P.E. License Num	conform to the					





PROJECT NAME	:	UCR- Chass Bu	ilding		JOB NO:	0	5-1425
PROJECT ADDRI	ESS:	3615 Canyon C	rest Drive, Riverside, C	CA 92507	LAB NO:		3081
CLIENT NAME: CLIENT ADDRES	SS:	S.J. Amoroso Co 275 East Baker Costa Mesa, CA	-				
SPECIMEN TYPE	:	Concrete	-				
LOCATION IN S	TRUCTURE:	Foundation foo	oting Grid line: D/2				
MIX NO:	CHJ05370	MEA	ASURED SLUMP (in):	5 1/2	SPEC'D PSI:		3000
AIR CONTENT:	N/A	_	AMBIENT TEMP:	35	CONCRETE TEMP:		60
SUPPLIER:	Robertson's		_DIAMETER (in):	6	AREA (sq. in.):	28.2	8
DATE CAST:	2/17/2006	TIME CAST	7:05 A.M.	CAST BY:	G.Branstetter	.CO.:	_RTE
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 D/ AVER/	
1	7	2/27/2006	118,740	4,199	D		
2	28	3/17/2006	"	0			
3	28	3/17/2006	_				
4	Hold						
*	Compression ASTM C31,	on test results w C39, C143, C17	B), CONE & SHEAR ((vere satisfactory and 12, C1231 & C1064. vere not satisfactory	conform to the	* *		
		Dr. Sanjay Gov	vil, P.E. License Num	nber 51523	•		





PROJECT NAME	:	UCR- Chass Bui	lding		JOB NO:	05-1425
PROJECT ADDRE	ESS:	3615 Canyon Ci	rest Drive, Riverside, C	A 92507	LAB NO:	3082
CLIENT NAME: CLIENT ADDRES	S:	S.J. Amoroso Co 275 East Baker S Costa Mesa, CA				
SPECIMEN TYPE	:	Concrete	-			
LOCATION IN S	TRUCTURE:	Foundation foo	ting Grid line: C/1			·
MIX NO:	CHJ05370	MEA	SURED SLUMP (in):	4 1/2	SPEC'D PSI:	3000
AIR CONTENT:	N/A	_	AMBIENT TEMP:	42	CONCRETE TEMP:	60
SUPPLIER:	Robertson's		DIAMETER (in):	6	AREA (sq. in.):	28.28
DATE CAST:	2/17/2006	TIME CAST	2:22 A.M.	CAST BY:	G.Branstetter	CO.: RTE
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE
1	7	2/27/2006	109,530		D	
2	28	3/17/2006		0		
3	28	3/17/2006				-
4	Hold					
*	CONE (A), (CONE & SPLIT (E	3), CONE & SHEAR (C), SHEAR (D), C	OLUMNAR (E)	
	Compressio	n test results w	ere satisfactory and	conform to the	specifications of	
	ASTM C31.	C39, C143, C17	2, C1231 & C1064.		•	
	· ·		ere not satisfactory			
	REMARKS:			333, 33,		
		Dr. Sanjay Gov	ril, P.E. License Num	nber 51523		





PROJECT NAME	:	UCR- Chass Bu	ilding		JOB NO:	05-1425			
PROJECT ADDRI	ESS:	3615 Canyon C	rest Drive, Riverside, 0	CA 92507	LAB NO:	3083			
CLIENT NAME: CLIENT ADDRES	S:	S.J. Amoroso Co 275 East Baker Costa Mesa, CA							
SPECIMEN TYPE	· :	Concrete	_						
LOCATION IN S	TRUCTURE:	Foundation foo	oting Grid line: B/3.5						
MIX NO:	CHJ05370	_ MEA	ASURED SLUMP (in):	5 1/2	5 1/2 SPEC'D PSI:				
AIR CONTENT:	N/A	_	AMBIENT TEMP:	52	CONCRETE TEMP:	60			
SUPPLIER:	Robertson's		_DIAMETER (in):	6	AREA (sq. in.):	28.28			
DATE CAST:	2/17/2006	TIME CAST	10:15 A.M.	CAST BY:	G.Branstetter	CO.: RTE			
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE			
1	7	2/27/2006	95,660	3,383	D				
2	28	3/17/2006		0					
3	28	3/17/2006							
4	Hold								
*	Compressio ASTM C31,	n test results w C39, C143, C17 n test results w	B), CONE & SHEAR (vere satisfactory and 22, C1231 & C1064. vere not satisfactory	l conform to the					
		Dr. Sanjay Gov	vil, P.E. License Nun	nber 51523					





PROJECT NAME	:	UCR- Chass Bu	ilding		JOB NO:	05-1	1425		
PROJECT ADDRI	ESS:	3615 Canyon C	rest Drive, Riverside, C	CA 92507	LAB NO:	3	3084		
CLIENT NAME: CLIENT ADDRES	S:	S.J. Amoroso Co 275 East Baker Costa Mesa, CA							
SPECIMEN TYPE	:	Concrete	<u>-</u>						
LOCATION IN S	TRUCTURE:	Foundation foo	oting Grid line: D/1		·				
MIX NO:	CHJ05370	MEA	SURED SLUMP (in):	5 3/4	5 3/4 SPEC'D PSI:				
AIR CONTENT:	N/A	_	AMBIENT TEMP:	44	CONCRETE TEMP:		60		
SUPPLIER:	Robertson's		_DIAMETER (in):	6	AREA (sq. in.):	28.28			
DATE CAST:	2/17/2006	TIME CAST	8:30 A.M.	CAST BY:	G.Branstetter	.co.:	RTE		
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAG			
1	7	2/27/2006	94,750	3,350	D		一		
2	28	3/17/2006		0					
·3	28	3/17/2006					\neg		
4	Hold								
		-							
							\neg		
•	Compressio ASTM C31,	n test results w C39, C143, C17 n test results w	B), CONE & SHEAR (vere satisfactory and 2, C1231 & C1064.	conform to the					
		טr. Sanjay Gov	vil, P.E. License Nun	nder 5 1523					





PROJECT NAME:		UCR- Chass Bui	lding		JOB NO:	05-1425
PROJECT ADDRE	ESS:	3615 Canyon C	rest Drive, Riverside, C	A 92507	LAB NO:	3085
CLIENT NAME: CLIENT ADDRES	S:	S.J. Amoroso Co 275 East Baker S Costa Mesa, CA				
SPECIMEN TYPE:		Concrete	_			
LOCATION IN ST	TRUCTURE:	Foundation foo	ting Grid line: B/3.5			
MIX NO:	CHJ05370	_ MEA	SURED SLUMP (in):	5	SPEC'D PSI:	3000
AIR CONTENT:	N/A	_	AMBIENT TEMP:	40	CONCRETE TEMP:	60
SUPPLIER:	Robertson's		DIAMETER (in):	6	AREA (sq. in.):	28.28
DATE CAST:	2/17/2006	TIME CAST	4:06 A.M.	CAST BY:	G.Branstetter	CO.: RTE
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE
1	7	2/27/2006	111,030		D	
2	28	3/17/2006		0		
3	28	3/17/2006				
4	Hold					
*	Compressio ASTM C31,	n test results w C39, C143, C17	3), CONE & SHEAR (or satisfactory and 2, C1231 & C1064. There not satisfactory			

SINSPECTION MATERIALS TESTING SECTECHNICAL SECTION





PROJECT NAME	:	UCR- Chass Bu	ilding		JOB NO:	05-1425
PROJECT ADDR	ESS:	3615 Canyon C	rest Drive, Riverside, C	CA 92507	LAB NO:	3165
CLIENT NAME: CLIENT ADDRES	SS:	S.J. Amoroso Co 275 East Baker Costa Mesa, CA				
SPECIMEN TYPE		Concrete	_			
LOCATION IN S	TRUCTURE:		Shear Wall @ L/16			
MIX NO:	44243	MEA	ASURED SLUMP (in):	6	SPEC'D PSI:	5000
AIR CONTENT:	N/A	-	AMBIENT TEMP:	60	CONCRETE TEMP:	64
SUPPLIER:	Robertson's		_DIAMETER (in):	6	AREA (sq. in.):	28.28
DATE CAST:	3/7/2006	TIME CAST	9:10am	CAST BY:	Gary Branstetter	CO.: RTE
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE
1	7	3/14/2006	149,730		В	-
2	28	4/4/2006		0		
3	28	4/4/2006				
4	Hold					
*	Compression ASTM C31, Compression REMARKS:	n test results w C39, C143, C17 n test results w	3), CONE & SHEAR (overe satisfactory and 2, C1231 & C1064. There not satisfactory	conform to the		
		Dr. Sanjay Gov	/il, P.E. License Num	ber 51523		





PROJECT NAME	:	UCR- Chass Bu	ilding		JOB NO:	05-1425
PROJECT ADDR	ESS:	3615 Canyon C	rest Drive, Riverside, C	A 92507	LAB NO:	3166
CLIENT NAME: CLIENT ADDRES	SS:	S.J. Amoroso Co 275 East Baker Costa Mesa, CA	· ·			
SPECIMEN TYPE	:	Concrete	-			
LOCATION IN S	TRUCTURE:		Shear Wall @ R/13			
MIX NO:	CHJ05372	_ MEA	ASURED SLUMP (in):	5	SPEC'D PSI:	5000
AIR CONTENT:	N/A	_	AMBIENT TEMP:	50	CONCRETE TEMP:	62
SUPPLIER:	Robertson's		_DIAMETER (in):	6	AREA (sq. in.):	28.28
DATE CAST:	3/7/2006	TIME CAST	7am	CAST BY:	Gary Branstetter	.CO.: RTE
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE
1	7	3/14/2006	151,310	5,350	C	-
2	28	4/4/2006		0		
3	28	4/4/2006				
4	Hold					
* □	Compressio ASTM C31,	n test results w C39, C143, C17	B), CONE & SHEAR ((vere satisfactory and 2, C1231 & C1064. Vere not satisfactory	conform to the		
		Dr. Sanjay Gov	vil, P.E. License Num	nber 51523		





	-			LAB NO:	3167
UCTURE:	S.J. Amoroso Co 275 East Baker S Costa Mesa, CA	onstruction Co., Inc Street, Suite B 92626-4504			
	Concrete	Foundation Footings	0.10/0		
		Foundation Footings	0.15.45		
HJ05370			@ J2/3		
	MEA	SURED SLUMP (in):	5	SPEC'D PSI:	3000
/A		AMBIENT TEMP:	50	60	
obertson's		DIAMETER (in):	6	AREA (sq. in.):	28.28
3/7/2006	TIME CAST	4:54am	CAST BY:	Gary Branstetter	CO.: RTE
SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE
7	3/14/2006	138,300		В	,
28			0		
28	4/4/2006		·		
Hold					
ompression STM C31, C ompression EMARKS:	n test results w C39, C143, C17 n test results w	ere satisfactory and 2, C1231 & C1064. ere not satisfactory	conform to the		
	JA Subertson's 3/7/2006 SAMPLE AGE 7 28 28 Hold ONE (A), Compression STM C31, Compression EMARKS:	Dispersion test results we smarks:	AMBIENT TEMP: Dibertson's DIAMETER (in): 3/7/2006 TIME CAST SAMPLE AGE TEST DATE MAXIMUM LOAD (lbf) 7 3/14/2006 138,300 28 4/4/2006 28 4/4/2006 Hold DNE (A), CONE & SPLIT (B), CONE & SHEAR (Compression test results were satisfactory and STM C31, C39, C143, C172, C1231 & C1064. Compression test results were not satisfactory EMARKS:	AMBIENT TEMP: 50 AMBIENT TEMP: 50 DIAMETER (in): 6 3/7/2006 TIME CAST 4:54am CAST BY: SAMPLE AGE TEST DATE MAXIMUM LOAD (Ibf) STRENGTH (psi) 7 3/14/2006 138,300 4,890 28 4/4/2006 0 28 4/4/2006 0 Hold CONE & SPLIT (B), CONE & SHEAR (C), SHEAR (D), Compression test results were satisfactory and conform to the STM C31, C39, C143, C172, C1231 & C1064. Dempression test results were not satisfactory EMARKS:	AMBIENT TEMP: 50 CONCRETE TEMP: DIAMETER (in): 6 AREA (sq. in.): 3/7/2006 TIME CAST 4:54am CAST BY: Gary Branstetter



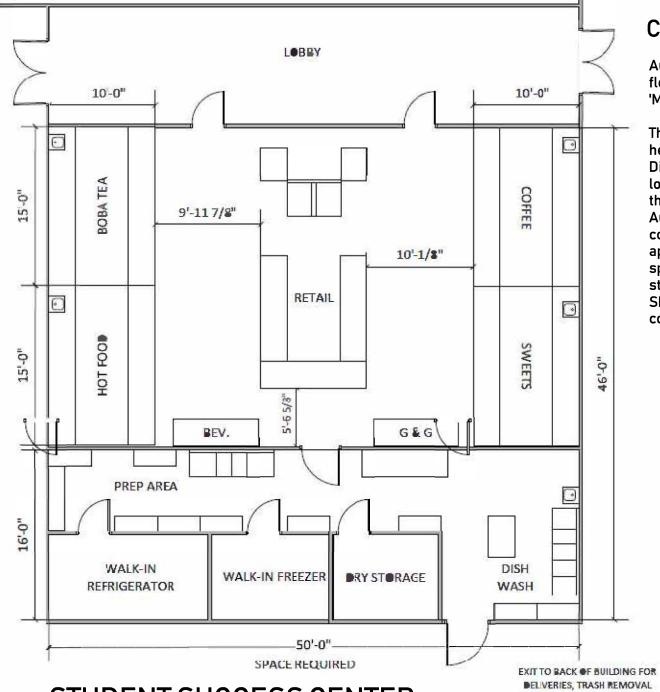


PROJECT NAME	:	UCR- Chass Bui	lding		JOB NO:	05-1425
PROJECT ADDRI	ESS:	3615 Canyon Ci	rest Drive, Riverside, C	A 92507	LAB NO:	3168
CLIENT NAME: CLIENT ADDRES	S:	S.J. Amoroso Co 275 East Baker S Costa Mesa, CA				
SPECIMEN TYPE	:	Concrete	-			
LOCATION IN S	TRUCTURE:		Foundation Footings	@ J2/1.9		
MIX NO:	CHJ05370	MEA	SURED SLUMP (in):	5	SPEC'D PSI:	3000
AIR CONTENT:	N/A	_	AMBIENT TEMP:	50	CONCRETE TEMP:	60
SUPPLIER:	Robertson's		DIAMETER (in):	6	AREA (sq. in.):	28.28
DATE CAST:	3/7/2006	TIME CAST	4:06am	CAST BY:	Gary Branstetter	.CO.: RTE
SAMPLE NUMBER	SAMPLE AGE	TEST DATE	MAXIMUM LOAD (lbf)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE*	28 DAY AVERAGE
1	7	3/14/2006	133,270	4,713	С	
2	28	4/4/2006		0	 -	
3	28	4/4/2006				
4	Hold					
*	Compressio	n test results w	3), CONE & SHEAR ((ere satisfactory and 2, C1231 & C1064.			
	-		ere not satisfactory			
	REMARKS:					
		Dr. Sanjay Gov	vil, P.E. License Num	nber 51523	-	

Conceptual Floor Plan

Auxiliary services has developed this conceptual floor plan diagram to illustrate the proposed 'Market Style Restaurant Concept'.

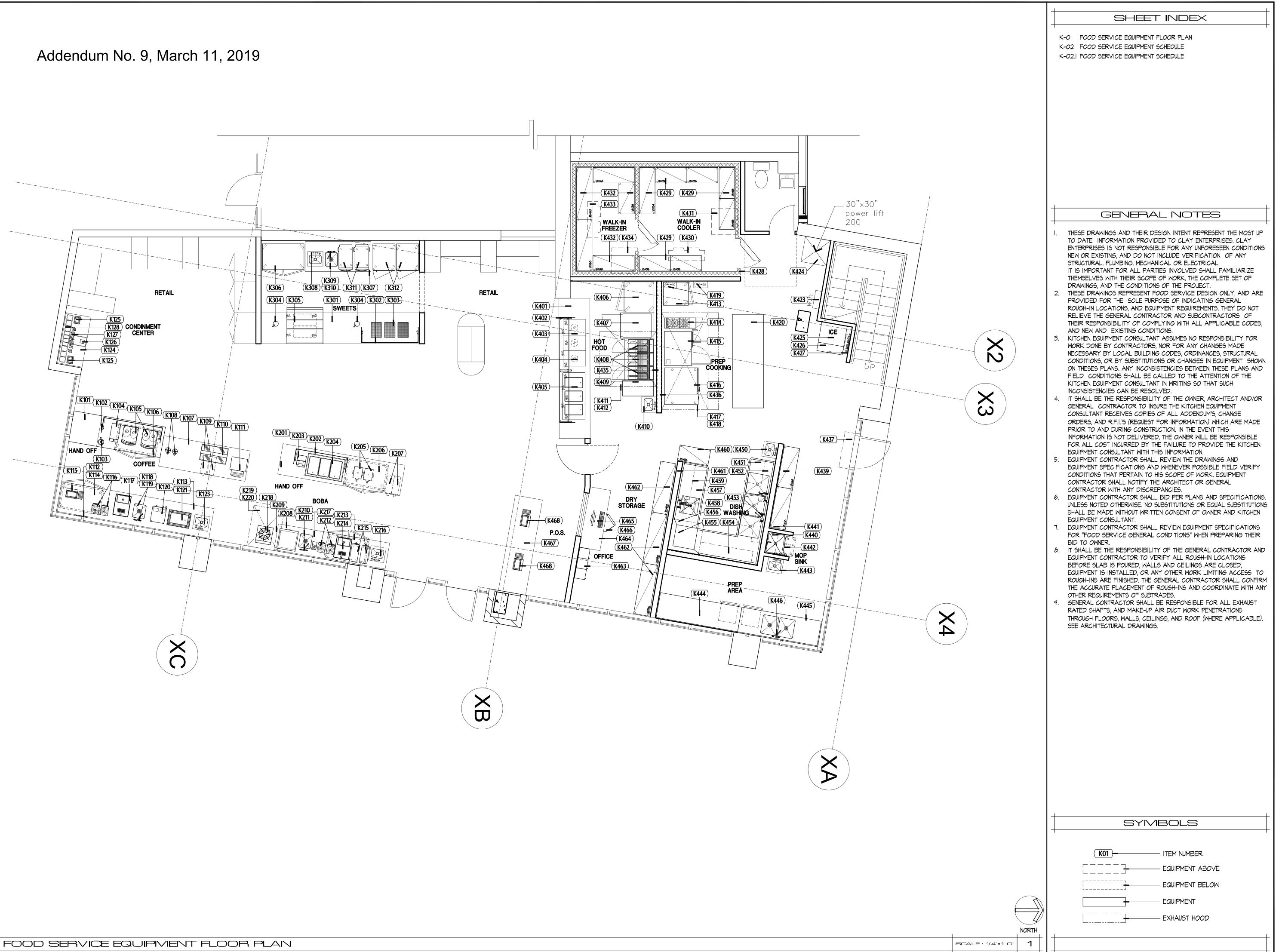
This diagram is provided only for reference to help explain the desired functionality of the Dining Services space. Layout, platform locations, and themes are subject to change as the food concept and design are developed by Auxiliary Services. The design-Build Entity shall coordinate with Auxiliary Services to provide an appropriately shaped and proportioned shell space to meet the intended functions. Note, the staging area for trash (as indicated in the Shelled space criteria) is not shown in this early conceptual plan.



STUDENT SUCCESS CENTER

Dining Services Venue: Concept Plan

Project Number: 950512



ENTERPRISES
Food Service Design

2961 W macarthur blvd. suite 126 santa ana, california 92704 t 714 429 9914

and Consulting

clayenterprises.net

REVISIONS DATE REMARKS SCALE: 1/4"=1"-0" DRAWN BY: CLAY JOB NO. 18-034

THIS DOCUMENT, AND THE IDEAS AND DESIGN CONCEPTS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, CANNOT BE USED, IN WHOLE OR IN PART FOR THIS OR ANY OTHER PROJECT, WITHOUT THE WRITTEN AUTHORIZATION OF CLAY ENTERPRISES, INC.

01/17/19

DATE:

UCR FOOD LAB NORTH DISTRICT RIVERSIDE, CA

SHEET TITLE

FOOD SERVICE EQUIPMENT FLOOR PLANS

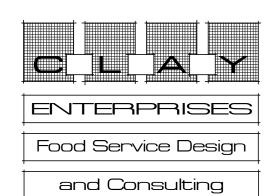
K-01

SHEET

		<u> </u>	QUIPMENT S		HEC		LE (C	COFFEE)					
E Q	UIP	MENT		PLU	JMB	ING			EL	ECT	RIC	A L	
ITEM NO.	QUANTITY	DESCRIPTION	MAKE & MODEL	COLD WATER	HOT WATER	WASTE	GAS - BTU	REMARKS	VOLTS	AMPS	PHASE	HORSE POWER	REMARKS
KIOI	ı	COFFEE PICK UP COUNTER	CUSTOM MILLWORK SEE ARCHITECTURAL DWGS.										
KI02	I SET	SNEEZER GUARD	SEE ARCHITECTURAL DWGS.										
K103	ı	DIPPER WELL	T#S BRASS B-2282-0	1/2"		F.S.		INDIRECT WASTE WITH I" AIR GAP AT FLOOR SINK					
KI04	ı	HOT WATER DISPENSER	INSINKERATOR H-VIEW-SS	1/4"				CONNECT TO WATER FILTER	120	6.5	1		GROUNDED THREE PRONG PLUG PROVIDED
KI05	2	ESPRESSO MACHINES	SCHAEFER COFFEE ART PLUS	1/2"					208	24.0	ı		WITH NEMA L6-30R CORD AND PLUG
K106	ı	48" UNDERCOUNTER REFRIGERATOR WITH CASTERS	TRUE TUC-48-LP-HC						120	3.0	1	1/5	WITH NEMA 5-15P CORD AND PLUG
K107	ı	DISPLAY COUNTER	CUSTOM MILLWORK SEE ARCHITECTURAL DWGS.										
K108	2	COFFEE DISPENSERS	OWNER PROVIDED	1/2"				CONNECT TO WATER FILTER	×	×	×	×	X
KIO9	2	CUP DISPENSERS	DISPENSE-RITE BFL-2										
KIIO	ı	BAGEL DISPLAY CASE	CUSTOM										
KIII	ı	COUNTERTOP CONVEYOR TOASTER	STAR QC53-1000						208	15.9	1		WITH NEMA 6-20P CORD AND PLUG
KII2	ı	POS BUMP MONITOR	NOT IN K.E.C. SCOPE OWNER PROVIDED						120	2.0	1		REQ. DEDICATED OUTLETS AND CIRCUITS
KII3	ı	BACK WORK COUNTER W/ OPEN BASE FOR UNDERCOUNTER REFRIGERATOR	SEE ARCHITECTURAL DWGS.										
KII4	ı	48" UNDERCOUNTER REFRIGERATOR WITH CASTERS	TRUE TUC-48-LP-HC						120	3.0	1	1/5	WITH NEMA 5-15P CORD AND PLUG
KII5	I SET	POS UNIT AND PRINTER	NOT IN K.E.C. SCOPE OWNER PROVIDED						120	2.0	I		REQ. DEDICATED OUTLETS AND CIRCUITS
KII6	2	BLENDERS	VITA-MIX 036019						120	15.0	ı		WITH NEMA 5-15P CORD AND PLUG
KII7	I	ICE / WATER DISPENSER	ADVANCE TABCO D-24-WSIBL2	1/2"		1"							
KII8	I	UNDERMOUNT UTILITY SINK	ADVANCE TABCO CO-1416A-IORE			F.S.		INDIRECT WASTE WITH I" AIR GAP AT FLOOR SINK					
KII9	ı	DECK MOUNT FAUCET	FISHER 57770	1/2"	1/2"								
K120	ı	COFFEE BREWER	BUNN-0-MATIC 38700.0013	3/8"					120/ 240	26.0	1		FLEX CONDUIT CONNECTION TO J-BOX
KI2I	ı	DROP-IN COLD PAN	DELFIELD N&11&B						120	3.7	1	1/5	WITH NEMA 5-15P CORD AND PLUG
KI22	-	OPEN NUMBER											
KI23		DROP-IN HAND SINK WITH SOAP AND PAPER TOWEL DISPENSERS	ADVANCE TABCO 7-PS-42A	1/2"	1/2"	I-I/2"		DIRECT WASTE					
KI24	ı	CONDIMENT COUNTER WITH CUT OUT FOR TRASH CHUTE	SEE ARCHITECTURAL DWGS.										
KI25	2	NAPKIN DISPENSERS	TORK 6032120										
KI26	ı	UNDERCOUNTER TRASH CAN	RUBBERMAID FG295700BLA										
K127	I SET	ASSORTED CREAMERS	NOT IN K.E.C. SCOPE OWNER PROVIDED										
K128	I SET	CONDIMENT HOLDERS	NOT K.E.C. SCOPE OWNER PROVIDED										
K129	-	OPEN NUMBER											
KI30	-	OPEN NUMBER											

		E	EQUIPMENT S	5 C	HE		JLE (BOBA)					
E Q	UIP	MENT		PL	UМВ	ING			ELI	ЕСТ	RIC	A L	
ITEM NO.	QUANTITY	DESCRIPTION	MAKE & MODEL	COLD WATER	HOT WATER	WASTE	GAS - BTU	REMARKS	VOLTS	AMPS	PHASE	HORSE POWER	REMARKS
K201	1	FRONT COUNTER WITH OPEN BASE FOR UNDERCOUNTER REFRIGERATOR	SEE ARCHITECTURAL DWGS.										
K202	_	SNEEZE GUARD	SEE ARCHITECTURAL DWGS.										
K203	1	BOBA TEA SEALER	BUBBLE TEALOGY 9995N						120	×	1		VERIFY IN FIELD
<204	1	DROP-IN THREE WELL COLD PAN	DELFIELD N&143B						120	3.7	1	1/5	WITH NEMA 5-15P CORD AND PLUG
<205	2	TEA DISPENSERS	BUNN-0-MATIC 03250.0005										
<206	1	48" UNDERCOUNTER REFRIGERATOR WITH CASTERS	TRUE TUC-48-LP-HC						120	3.0	1	1/5	WITH NEMA 5-15P CORD AND PLUG
<207	2	CUP DISPENSERS	DISPENSE-RITE BFL-2										
<208	1	BACK COUNTER WITH OPEN BASE	CUSTOM MILLWORK SEE ARCHITECTURAL DWGS.										
(209	1	STOCK POT INDUCTION COUNTERTOP RANGE	COOKTEK 646701						208	19.4	3		WITH NEMA LI5-20P CORD AND PLUG
210	1	UNDERMOUNT UTILITY SINK	ADVANCE TABCO CO-1416A-10RE			F.S.		INDIRECT WASTE WITH I" AIR GAP AT FLOOR SINK					
(211	1	DECK MOUNT FAUCET	FISHER 57770	1/2"	1/2"								
(2 2	2	BLENDERS	VITA-MIX 036019						120	15.0	1		WITH NEMA 5-15P CORD AND PLUG
(2 3	1	48" UNDERCOUNTER REFRIGERATOR WITH CASTERS	TRUE TUC-48-LP-HC						120	3.0	1	1/5	WITH NEMA 5-15P CORD AND PLUG
(2 4	1	ICE / WATER DISPENSER	ADVANCE TABCO D-24-WSIBL2	1/2"		l"							
(2 5	2	TEA BREWERS	BUNN-0-MATIC 41400.0000	1/4"					120	14.0	1		WITH NEMA 5-15P CORD AND PLUG
(216	1	DROP-IN HAND SINK WITH SOAP AND PAPER TOWEL DISPENSERS	ADVANCE TABCO 7-PS-42A	1/2"	1/2"	I-I/2"		DIRECT WASTE					
(217	1	BLENDER RISNER	XXXX										
(218	1	STOCK POT STOVE	VULCAN VSPIOO DORMONT 1675KIT2S48				3/4" OK						
(219	I SET	STAINLESS STEEL TYPE I EXHAUST HOOD	GAYLORD SEE SHEET XX-XX						×	×	×		XXXX
<220	I SET	EXHAUST FAN AND MAKE-UP AIR SYSTEM	NOT IN K.E.C. SCOPE SEE MECHANICAL DRAWINGS										SEE MECH. AND ELEC. DRAWINGS
(221	1	OPEN NUMBER											
<222	1	OPEN NUMBER											
<223	-	OPEN NUMBER											
(224	-	OPEN NUMBER											
(225	-	OPEN NUMBER											
<226	-	OPEN NUMBER											
<227	-	OPEN NUMBER											
<228	-	OPEN NUMBER											
<229	-	OPEN NUMBER											
<230	-	OPEN NUMBER											

E 0 1		M E N T		рі	II M P	ING			E i i	- C T		<u> </u>	
ב עו	רוי ר	MI E 14 I		P L U M B I N G						ELECTRICAL			
ITEM NO.	QUANTITY	DESCRIPTION	MAKE & MODEL	COLD WATER	HOT WATER	WASTE	GAS - BTU	REMARKS	VOLTS	AMPS	PHASE	HORSE POWER	REMARKS
301	1	FRONT COUNTER	CUSTOM MILLMORK SEE ARCHITECTURAL DWGS.										
302	ı	SNEEZE GUARD	SEE ARCHITECTURAL DWGS.										
(303	1	SWEETS DISPLAY PANS	NOT IN K.E.C. SCOPE OWNER PROVIDED										
304	2	DIPPER WELLS	T#S BRASS B-2282-01	1/2"		F.S.		INDIRECT WASTE WITH I" AIR GAP AT FLOOR SINK					
305	ı	GELATO DISPLAY CASE	HILL-PHOENIX SSDLT GELATO					AIR OAL ALL LOOK SINK	×	×	×	X	×
306	1	48" FULL HEIGHT REFRIGERATOR WITH CASTERS	TRUE TS-49F-HC						120	9.6	1	ı	WITH NEMA 5-15P CORD AND PLUG
(307	ı	BACK COUNTER	CUSTOM MILLWORK SEE ARCHITECTURAL DWGS.										/ NND 1 LUC
308	1	DROP-IN HAND SINK WITH SOAP AND PAPER TOWEL DISPENSERS	ADVANCE TABCO 7-PS-42A	1/2"	1/2"	1-1/2"		DIRECT WASTE					
(309	ı	UNDERMOUNT UTILITY SINK	ADVANCE TABCO CO-1416A-10RE			F.S.		INDIRECT WASTE WITH I" AIR GAP AT FLOOR SINK					
310	1	DECK MOUNT FAUCET	FISHER 57770	1/2"	1/2"			ALL LOOK SINK					
311	2	COUNTERTOP TURBOCHEF OVENS	TURBOCHEF SOTA-TC						208/ 240	30.0	1		WITH NEMA 6-30P CORD AND PLUG
(312	2	MOBILE FOOD CARTS	CRES COR						240				AND I LOC
(3 3	-	OPEN NUMBER	IOS-OA-IID										
314	-	OPEN NUMBER											
(315	-	OPEN NUMBER											
(316	-	OPEN NUMBER											
(317	-	OPEN NUMBER											
(318	-	OPEN NUMBER											
(319	-	OPEN NUMBER											
(320	-	OPEN NUMBER											
(321	-	OPEN NUMBER											
322	-	OPEN NUMBER											
(323	-	OPEN NUMBER											
324	-	OPEN NUMBER											
325	-	OPEN NUMBER											
326	-	OPEN NUMBER											
327	-	OPEN NUMBER											
328	-	OPEN NUMBER											
329	-	OPEN NUMBER											
(330	_	OPEN NUMBER											



2961 W macarthur blvd. suite 126 santa ana, california 92704 t 714 429 9914

clayenterprises.net

REVISIONS DATE REMARKS SCALE: 1/4"=1"-0" DRAWN BY: CLAY

THIS DOCUMENT, AND THE IDEAS AND DESIGN CONCEPTS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, CANNOT BE USED, IN WHOLE OR IN PART FOR THIS OR ANY OTHER PROJECT, WITHOUT THE WRITTEN AUTHORIZATION OF CLAY ENTERPRISES, INC.

18-034 01/17/19

JOB NO.

UCR FOOD LAB NORTH DISTRICT RIVERSIDE, CA

SHEET TITLE

FOOD SERVICE EQUIPMENT SCHEDULE

K-02

SHEET

E Q	UIP	M E N T		PLU	ЈМВ	ING			EL	ECT	RIC	A L	Г
NO.	QUANTITY	SCRIPTION	E & MODEL	D WATER	WATER	ASTE	- BTU	REMARKS	<u>8</u>	ဖ	SE	SE POWER	ARKS
ITEM	QUA	DESC	MAKE	СОГР	Ю	WAS	GAS	REM	VOLTS	AMPS	PHASE	HORSE	REMAR
401	I	FRONT COUNTER	CUSTOM MILLWORK SEE ARCHITECTURAL DWGS.										
402		SNEEZE GUARD CRAVING STATION	BRASS SMITH X6-3500 CUSTOM MILLWORK										
403 404		CEILING MOUNT HEAT LAMPS	SEE ARCHITECTURAL DWGS. HATCO						120	2.0			2.0 AMPS PER LAMP CEILING MOUNT
405		DROP-IN THREE WELL HOT / COLD PAN	DL-725-RTL VOLLRATH FC-6HC-03208-AD						120/	l I	1		CEILING MOUNT WITH NEMA 14-20P CORE AND PLUG
406	I	ONE DOOR REACH-IN FREEZER	TRUE T-23F-HC						120	3.7	1	1/2	WITH NEMA 5-15P CORD AND PLUG
407	1	MOBILE HOLDING CABINET BATTERY OF THREE FRYERS	MINSTON HMAOI8 PITCO SSH55-3FD				3/4"	80,000 BTU'S PER FRYER	120	15.0 1.7	<u> </u>		WITH NEMA 5-15P CORD AND PLUG VERIFY IN FIELD
408 409		STAINLESS STEEL WORKTABLE	PITCO SSH55-3FD DORMONT 1675KIT2S48 ADVANCE TABCO				240K	240,000 TOTAL BTU'S	120		İ		VERIFY IN FIELD VERIFY IN FIELD
410		WALL MOUNT HAND SINK WITH SOAP AND PAPER TOWEL DISPENSERS	ADVANCE TABCO 7-PS-42A	1/2"	1/2"	I-I/2"		DIRECT WASTE					
411	I SET	STAINLESS STEEL TYPE I EXHAUST HOOD AT MAIN COOKING	GAYLORD SEE SHEET XX-XX						×	×	×		xxxx
412	I SET	EXHAUST FAN AND MAKE-UP AIR SYSTEM ONE DOOR REACH-IN REFRIGERATOR	NOT IN K.E.C. SCOPE SEE MECHANICAL DRAWINGS TRUE										SEE MECH. AND ELEC. DRAWINGS WITH NEMA 5-15P CORD
413	1	COUNTERTOP 2 BURNER RANGE	STAIRRI-IS VULCAN V2BI2B				I-I/4"	35,000 BTU'S PER BURNER	120	8.9	<u> </u>	1/3	AND PLUG
415	1	SMOKER	DORMONT 16125KIT2S48 SOUTHERN PRIDE SRG400				70K	TO DOOK TOTAL BTU'S	120	15.0	1		WITH NEMA 5-15P CORD AND PLUG
416	1	DOUBLE DECK COMBI-THERM OVEN	RATIONAL BI28106.12 / 60.74.249 8720.1554US / B628106.12 / 8720.1563US	(2) 1/2"					208	102.7 61.4			FLEX CONDUIT CONNECTION FLEX CONDUIT CONNECTION
	1 JL1	STAINLESS STEEL TYPE I EXHAUST HOOD AT PREP COOKING	GAYLORD SEE SHEET XX-XX		_				×	×	×		XXXX
418	I SET	EXHAUST FAN AND MAKE-UP AIR SYSTEM ANSUL FIRE PROTECTION SYSTEMS	NOT IN K.E.C. SCOPE SEE MECHANICAL DRAWINGS ANSUL						10 -	4 -			SEE MECH. AND ELEC. DRAWINGS CONNECT TO SHUNT TRIP
419 420	2	STAINLESS STEEL ISLAND WORKTABLE	RIO2 ADVANCE TABCO						120	4.0	<u> </u>		AT ELECTRICAL PANEL
420	-	OPEN NUMBER	SS-369										
422	-	OPEN NUMBER											
423	ı		NOT IN K.E.C. SCOPE OWNER PROVIDED								_		
424	l	POWER LIFT SELF-CONTAINED ICE MACHINE	NOT IN K.E.C. SCOPE OWNER PROVIDED MANITOWOC					CONNECT TO WATER FILTER	208/				FLEX CONDUIT CONNECTION
425 426	1	ICE BIN	MANITOWOC	1/2"		F.S.		IND. WASTE AT FL <i>OOR</i> SINK INDIRECT WASTE WITH I"	230	14.2	<u> </u>		TEEX CONDON CONNECTION
427	1	WATER FILTER	D5TO XXXX			1 .5.		AIR GAP AT FLOOR SINK					
428	ı	WALK-IN COOLER / FREEZER WITH INSULATED FLOOR, LED LIGHTING, STRIP CURTAINS AND DOOR VIEW PORTS	IMPERIAL BROWN SEE SHEET XX-XX						120	4.0	1		FLEX CONDUIT CONNECTIO
429	I LOT	18" DEEP FIVE TIER COOLER STORAGE	METROMAX SEE CUTSHEET BOOK										
430	I	EVAPORATIVE COIL FOR COOLER COMPARTMENT REMOTE COMPRESSOR FOR COOLER COMPARTMENT	ICS/HEATCRAFT SEE SHEET XX-XX ICS/HEATCRAFT			F.S.		INDIRECT WASTE WITH I" AIR GAP AT FLOOR SINK	×	×	×	×	×
431	 L <i>O</i> T		SEE SHEET XX-XX METROMAX						X	X	×	×	^
433	I	EVAPORATIVE COIL, COIL DEFROST, DEFROST TIMER	SEE CUTSHEET BOOK ICS/HEATCRAFT			F.S.		INDIRECT WASTE WITH I"	×	×	×	×	X
434	ı	AT FREEZER COMPARTMENT REMOTE COMPRESSOR FOR FREEZER COMPARTMENT	SEE SHEET XX-XX ICS/HEATCRAFT SEE SHEET XX-XX					AIR GAP AT FLOOR SINK	×	×	×	×	X
435			CUSTOM STAINLESS STEEL										
	I LOT	STAINLESS STEEL WALL FLASHING AT PREP COOKING 42" AIR CURTAIN	CUSTOM STAINLESS STEEL MARS										DIRECT CONNECTION THR
437 438	-	OPEN NUMBER	LPN242-IUA-0B						120	2.4		1/6	MICRO SWITCH
439		18" DEEP FIVE TIER DRY STORAGE	METROMAX SEE CUTSHEET BOOK										
440	I	CURB STYLE MOP SINK WITH HOSE BIBB FAUCET	ADVANCE TABCO 9-0P-20 / K-240	1/2"	1/2"	2"		DIRECT WASTE W/ P-TRAP BELOW FLOOR					
441	2	MOP / BROOM RACK AND MOP BUCKET	ADVANCE TABCO MS-12-24 RUBBERMAID FG199200										
442			RUBBERMAID FG757788	1/2"	1/2"	1 1/2"		DIRECT WASTE					
443	I SEI	DISPENSERS STAINLESS STEEL PREP TABLE WITH UNDER SHELF, UTILITY DRAWER, BACK AND RIGHT SIDE SPLASH	7-PS-42A CUSTOM STAINLESS STEEL	1/2"	1/2"	I-I/2"							
445	ı		CUSTOM STAINLESS STEEL										
446	I SET	DECK MOUNT FAUCET AND LEVERWASTES	FISHER 57770 FISHER 22209	1/2"	1/2"								
447	-	OPEN NUMBER											
448	-	OPEN NUMBER OPEN NUMBER											
449	- I SET		ADVANCE TABCO	1/2"	1/2"	- /2"		DIRECT WASTE					
451	ı		7-PS-42A CUSTOM STAINLESS STEEL			, _							
452	4	STAINLESS STEEL WALL SHELVES	ADVANCE TABCO WS-12-48										
453	I SET	SPLASH MOUNT FAUCETS AND OVERFLOW LEVERWASTES STAINLESS STEEL SLANT RACK SHELF	FISHER 60801 FISHER 22209 ADVANCE TABCO	1/2"	1/2"								
454 455	1	CORNER DISHWASHER LEFT-TO-RIGHT OPERATION	DT-6R-13 HOBART		1/2"	2"		DIRECT WASTE	208	24.9	3		REQUIRES 30 AMP CIRCU
456	_	OPEN NUMBER	AMISVL		1/2				240	24.9			FLEX CONDUIT CONNECTION
457	ı	STAINLESS STEEL SOILED DISHTABLE	CUSTOM STAINLESS STEEL			2"		DIRECT WASTE					
458	I	SPLASH MOUNT PRE-RINSE UNIT	FISHER 52922	1/2"	1/2"								
459	1	STAINLESS STEEL SLANT RACK SHELF 18" DEEP FIVE TIER DRY STORAGE	ADVANCE TABCO DT-6R-I2 METROMAX										
460 461	l I LOT	STAINLESS STEEL WALL FLASHING AT DISHWASHING	SEE CUTSHEET BOOK CUSTOM STAINLESS STEEL										
462		18" DEEP FIVE TIER DRY STORAGE	METROMAX SEE CUTSHEET BOOK										
463	1	FIVE TIER EMPLOYEE LOCKERS, WALL MOUNT	SALSBURY 75355TN-A										
464	ı	MANAGER'S DESK	NOT IN K.E.C. SCOPE OWNER PROVIDED / STEELCASE										
465	ı	MANAGER'S COMPUTER MANAGER'S CHAIR	NOT IN K.E.C. SCOPE OWNER PROVIDED NOT IN K.E.C. SCOPE										
.466 .467	1	FRONT POS COUNTER	OWNER PROVIDED / STEELCASE CUSTOM MILLWORK										
461 468	2	POS UNITS AND PRINTERS	SEE ARCHITECTURAL DWGS. NOT IN K.E.C. SCOPE						120	4.0	<u> </u>		REQ. DEDICATED OUTLET
469		OPEN NUMBER	OWNER PROVIDED								•		AND CIRCUITS
470	-	OPEN NUMBER											
471	-	OPEN NUMBER											



and Consulting

2961 W macarthur blvd. suite 126 santa ana, california 92704 t 714 429 9914

clayenterprises.net

R	EVISIONS
DATE	REMARKS
SCALE:	NONE
DRAWN BY:	CLAY
JOB NO.	18-034
DATE:	01/17/19

THIS DOCUMENT, AND THE IDEAS AND DESIGN CONCEPTS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, CANNOT BE USED, IN WHOLE OR IN PART FOR THIS OR ANY OTHER PROJECT, WITHOUT THE WRITTEN AUTHORIZATION OF CLAY ENTERPRISES, INC.

UCR FOOD LAB NORTH DISTRICT RIVERSIDE, CA

SHEET TITLE

FOOD SERVICE EQUIPMENT SCHEDULE

K-02.1

SHEE

Common Name	Scientific Name	Size spec.	Spacing spec.	Walker Macy Review	Water Notes
Italian Stone Pine	Pinus pinea	15 Gal.		Tree prefers cool summer climates; Not best choice for inland California.	Good drought tolerance.
Arizona Ash	Fraxinus velutina	15 Gal.		California native; Good tree for inland heat; Can be susceptible to Ash decline that will kill the tree.	Moderate drought tolerance.
Chinese Fringe Tree - multi trunked	Chinoanthus retusus	24" Box		Slow growing; low maintenance.	Poor drought tolerance.
Chinese Fringe Tree - multi trunked	Chinoanthus retusus	15 Gal.		Slow growing; low maintenance. Broadleaf evergreen tree; choose	Poor drought tolerance.
				smaller growing cultivars; Can be a messy tree since large leathery leaves	
Southern Magnolia	Magnolia grandiflora	48" Box		create persistent litter.	Poor drought tolerance.
Sycamore	Platanus	Existing		Beautiful California native to stream beds; prefers constant moisture.	Moderate drought tolerance.
Pine	Pinus pinea	Existing		Tree prefers cool summer climates; Not best choice for inland California.	Good drought tolerance.
Southern Live Oak 'Heritage'	Quercus virginiana 'Heritage'	15 Gal.		Semi evergreen Oak; good native landscape companion.	Moderate drought tolerance.
Southern Live Oak Heritage	Quercus viigiilialia Tieritage	13 Gai.		Good desert or native landscape	
Palo Verde	Cercidium floridum 'Desert Museum'	24" Box		companion; thrives in desert heat. Needs pruning to develop good form.	Excellent drought tolerance.
				Good desert or native landscape companion; thrives in desert heat.	Excellent drought
Palo Verde	Cercidium floridum 'Desert Museum'	15 Gal.		Needs pruning to develop good form.	tolerance.
				Excellent heat tolerance; can be messy tree dropping leaves and pods. Select	Excellent drought
ARGENTINE MESQUITE	PROSOPIS ALBA - THORNLESS	36" Box	CLCLV ALCL MAINTI	thornless varieties.	tolerance.
STRAWBERRY TREE	ARBUTUS 'MARINA'	24" Box	5'-6' X 4'-5', MULTI- TRUNK	Good native landscape companion; Evergreen; attracts humming birds.	Moderate drought tolerance.
				Good desert or native landscape companion; thrives in desert heat.	
BLUE PALO VERDE	CERCIDIUM FLORIDUM	24" Box	9-11' X 3-4', STANDARD FORM	Needs pruning to develop good form. 'Desert Museum' is thornless variety.	Excellent drought tolerance.
CORK OAK	QUERCUS SUBER	24" Box	8-10' X 3-4', STANDARD FORM	Large evergreen Oak; Good native landscape companion.	Moderate drought tolerance.
com on	QOENCOS SOSEN	21 50%	9-11' X 4-5', STANDARD	Heat tolerant; Very fast growing; Very	Moderate drought
JACARANDA	JACARANDA MIMOSIFOLIA	24" Box	FORM	messy tree from pods, leaves and flowers.	tolerance.
PRIMEROSE TREE	LAGUNARIA PATERSONII	24" Box	STANDARD FORM 7-8' X 2-3', STANDARD	No direct knowledge of this tree.	Moderate drought
RIVER WATTLE	ACACIA SUBPROSA	15 Gal.	FORM	Small heat tolerant evergreen tree.	tolerance. Moderate drought
GRAPEFRUIT BLACK TEA TREE	CITRUS 'BLANCO D' ORO' MELALEUCA STYPHELIOIDES	15 Gal. 15 Gal.		Heat tolerant grapefruit tree. Evergreen Australian native.	tolerance. Good drought tolerance.
				Evergreen non native tree that re-	-
CALIFORNIA PEPPER	SCHINUS MOLLE	15 Gal.		seeds in native landscapes. Oils in leaf litter deter understory plant growth.	Excellent drought tolerance.
CALIFORNIATETER	SCHINOS MOLEE	Base Bid/Alt.			
California Buckeye	Aesculus califonica	24" Box		California native; Good native landscape companion.	Moderate drought tolerance.
Tree Aloe	Aloe barberae	24"/48" Box		Tree form of Aloe; Sculptural tree; Good desert landscape companion.	Excellent drought tolerance.
Hercules Aloe	Aloe 'Hercules'	24"/48" Box		Tree form of Aloe; Sculptural tree; Good desert landscape companion.	Excellent drought tolerance.
Arbutus	Arbutus x 'Marina'	24"/36" Box		Good native landscape companion; Evergreen; attracts humming birds.	Moderate drought tolerance.
				Good desert or native landscape companion; thrives in desert heat.	Excellent drought
Palo Verde	Cercidium floridum 'Desert Museum'	24"/36" Box		Needs pruning to develop good form. Exotic tropical looking plant; needs	tolerance. Moderate drought
Cabbage Palm	Cordyline australis 'Atropurpurea'	24" Box/15-Gal.		some shade in the desert.	tolerance.
				California native; Good tree for inland heat; Can be susceptible to Ash decline	•
Modesto Ash	Fraxinus velutina var. glabra	24"/48" Box		that will kill the tree. Evergreen Austrailian native tree;	tolerance.
Brisbane Box	Lophostemon conferta	24"/36" Box		prefers coastal conditions. Broadleaf evergreen tree; choose	Good drought tolerance.
				smaller growing cultivars; Can be a messy tree since large leathery leaves	
Southern Magnolia	Magnolia grandiflora	24"/36" Box		create persistent litter. Broadleaf evergreen tree; choose	Poor drought tolerance.
				smaller growing cultivars; Can be a	
Southern Magnolia	Magnolia grandiflora 'Russet'	24"/36" Box		messy tree since large leathery leaves create persistent litter.	Poor drought tolerance.
Swan Hill Olive	Olea europaea 'Swan Hill'	24"/36" Box		Fruitless Olive Variety; Tough, clean, slowgrowing evergreen.	Excellent drought tolerance.
Canary Island Pine	Pinus canariensis	24"/36" Box		Tolerates desert conditions.	Moderate drought tolerance in the desert.
Afghan Pine	Pinus eldarica	24"/36" Box		Tolerates desert conditions.	Moderate drought tolerance.
Italian Stone Pine	Pinus pinia	24"/36" Box		Tree prefers cool summer climates; Not best choice for inland California.	Good drought tolerance.
Alamo Sycamore		24"/36" Box		No knowledge of this tree. Beautiful California native to stream	Moderate drought
Alaillo sycalliore	Platanus mexicana 'Alamo'				
California Sycamore	Platanus mexicana 'Alamo' Platanus racemosa	24"/48" Box		beds; prefers constant moisture.	tolerance.
California Sycamore	Platanus racemosa			beds; prefers constant moisture. Non varietals of this tree are prone to weak crotches; has shown tendency to	tolerance. Moderate drought
		24"/48" Box 24"/36" Box		beds; prefers constant moisture. Non varietals of this tree are prone to weak crotches; has shown tendency to be invasive in Mid West. Beautiful California native; Good native	tolerance. Moderate drought tolerance.
California Sycamore	Platanus racemosa			beds; prefers constant moisture. Non varietals of this tree are prone to weak crotches; has shown tendency to be invasive in Mid West.	tolerance. Moderate drought
California Sycamore Ornamental Pear	Platanus racemosa Pyrus calleryana	24"/36" Box		beds; prefers constant moisture. Non varietals of this tree are prone to weak crotches; has shown tendency to be invasive in Mid West. Beautiful California native; Good native	tolerance. Moderate drought tolerance. Good drought tolerance.

Western Sycamore	Plantanus racemosa	15 Gal./24" Box	beds; prefers constant moisture. Beautiful California native; Good native	Moderate drought tolerance.
Coast Live Oak	Quercus agrifolia	15 Gal./24" Box	landscape companion.	Good drought tolerance.
California Sycamore	Platanus Racemosa	24" Box		Moderate drought tolerance.
California Pepper	Schinus Molle	24" Box	Evergreen non native tree that re- seeds in native landscapes. Oils in leaf litter deter understory plant growth.	Excellent drought tolerance.
WEEPING ACACIA	ACACIA PENDULA	24" Box		Good drought tolerance. Moderate drought
BRONZE LOQUAT WILLOW-LEAF PEPPERMINT LEMON SCENTED GUM	ERIOBOTRYA DEFLEXA EUCALYPTUS NICHOLII EUCALYPTUS CITRIODORA	24" Box 15 Gal. 15 Gal.	tolerant of desert conditions. Evergreen Australian native tree. Evergreen Australian native tree.	tolerance. Good drought tolerance. Good drought tolerance. Moderate drought
CANARY ISLAND PINE	PINUS CANARIENSIS	15 Gal.	Tolerates desert conditions.	tolerance in the desert.
CALIFORNIA SYCAMORE	PLATANUS RACEMOSA	36" Box		Moderate drought tolerance.
LONDON PLANE TREE	PLATANUS X ACERIFOLIA	15 Gal.	and Yarwood have good resistance to Anthracnose.	Moderate drought tolerance. Moderate drought
INDIAN HAWTHORN	RHAPHIOLEPIS INDICA	15 Gal.	Small scale, evergreen flowering tree.	tolerance.
PEPPERMINT WILLOW	AGONIS FLEXUOSA	48" Box / 14-16' T STANDARDS	Evergreen Australian native; prefers coastal conditions. Good desert or native landscape companion; thrives in desert heat.	Good drought tolerance.
HYBRID PALO VERDE	CERCIDIUM 'DESERT MUSEUM'	36" Box / 9-11' T MULTI-TRUNK STANDARDS MATCH E	Needs pruning to develop good form.	tolerance.
ASH TREE	FRAXINUS SP. TO BE DETERMINED	24" Box / 10-12' T TREES		
CHINESE FLAME TREE	KOELREUTERIA BIPINNATA	48" Box / 14-16' T STANDARDS		Moderate drought tolerance.
ROEBELIN PALM	PHOENIX ROEBELINII	30" Box / 3' T 3 TRUNK MULTI		Not drought tolerant. Moderate drought
YEW PINE	PODOCARPUS GRACILIOR	48" Box / 13-15' T STANDARDS	Evergreen African native.	tolerance. Moderate drought
CORK OAK	QUERCUS SUBER	36" Box 12-14' T STANDARDS	landscape companion.	tolerance.
TIPU TREE	TIPUANA TIPU	36" Box / 12-14' T STANDARDS		Needs ample water is desert conditions.

Common Name	Scientific Name	Size spec.	Spacing spec.	Walker Macy Review	Water Notes
Cotoneaster	Cotoneaster dammeri	5 Gal.	5' O.C.	Low maintenance; can reseed in adjacent beds increasing maintenance.	Medium drought tolerance. Somewhat drought
Chinese Wisteria	Wisteria sinensis	5 Gal.		Aggressive growth requires added maintenance to keep in bounds; produces excessive litter.	tolerance once established.
Lion's Tail	Leonotis leonurus	1 Gal.		Large shrub; low maintenance; good desert or native landscape companion.	Good drought tolerance.
Carmel Creeper	Ceanothus griseus horizontalis	5 Gal.		Low maintenance; can be short lived with excessive irrigation; excellent native adaptive.	Minimal irrigation once established.
·	-			-	Medium drought
'Bush Gold' Kangroo Paw	Anigozanthos flavidus 'Bush Gold'	5 Gal.		Good desert or native landscape companion.	tolerance. There are new more reliable and efficient
Sod Lawn		6,877 sq. ft.		Lawn should be limited to sports fields and important campus social spaces.	subsurface irrigation options that should be considered. There are new more reliable and efficient subsurface irrigation
Seed Lawn Hydroseed "Slope Saver" by Agrono-tec Seed Co. 1.800.543.4109		21,073 sq. ft.		Lawn should be limited to sports fields and important campus social spaces.	options that should be considered.
FEATHER REED GRASS	CALAMAGROSTIS ACUTIFLORA 'KARL FOERSTER'	5 Gal.		Large sterile ornamental grass; won't reseed; cut back in March; long lived. High water requirements. Not suited for desert or	Moderate drought tolerance.
CAMELLIA	CAMELLIA 'NUCCIO'S GEM'	5 Gal.		native landscape. High water requirements. Not suited for desert or	High water demand.
CAMELLIA	CAMELLIA SASANQUA 'WHITE DOVES'	5 Gal.		native landscape.	High water demand.
SILVERBERRY	ELEAGNUS PUNGENS	5 Gal.		Tough aggressive large shrub; requires constant pruning to keep it at manageable size. Good desert or native landscape companion. Low	Medium drought tolerance.
ROBIN GORDON GREVILLEA	GREVILLEA 'ROBYN GORDON'	5 Gal.		maintenance. Australian natives tend to be good candidates for Southern California.	Good drought tolerance.
NEW ZEALAND TEA TREE	LEPTOSPERMUM SCOPARIUM 'PINK PEARL	5 Gal.		Large but slowing growing shrub; good desert or native landscape companion. Low maintenance.	Good drought tolerance.
NEW ZEALAND FLAX	PHORMIUM 'WINGS OF GOLD'	5 Gal.		Low maintenance; good desert or native landscape companion.	Medium drought tolerance.
NEW ZEALAND FLAX	PHORMIUM 'RADIANCE'	5 Gal.		Low maintenance; good desert or native landscape companion.	Medium drought tolerance.
NEW ZEALAND FLAX	PHORMIUM 'SEA JADE'	5 Gal.		Low maintenance; good desert or native landscape companion.	Medium drought tolerance.
				Low maintenance; good desert or native	Medium drought
NEW ZEALAND FLAX	PHORMIUM 'JACK SPRATT'	5 Gal.		landscape companion. Only grow in shade; not a good desert or native	tolerance.
SWEET BOX	SARCOCOCCA RUSCIFOLIA	5 Gal.		landscape companion. Low maintenance; good desert or native	Not drought tolerant.
AGAPANTHUS	AGAPANTHUS 'ELAINE'	1 Gal.		landscape companion. Needs afternoon shade in Riverside.	Medium drought tolerance.
HUMMINGBIRD BUSH	GREVILLEA THELEMANNIANA 'DWARF GREY'	1 Gal.		Low maintenance; good desert or native landscape companion.	Good drought tolerance.
PINK MUHLY	MUHLENBERGIA CAPILLARIS 'REGAL MIST'	1 Gal.		Low maintenance need to cut back seasonally; good native landscape companion.	Good drought tolerance.
MEXICAN FEATHER GRASS	NASSELLA TENUISSIMA	1 Gal.		Low maintenance need to cut back seasonally; can reseed and become invasive in California.	Good drought tolerance.
				Low maintenance but can outgrow planting bed	
N.C.N.	ACACIA REDOLENS 'DESERT CARPET'	4" Flats	12" O.C.	and need to be cut back; good desert or native landscape companion.	Good drought tolerance.
CARMEL CREEPER	CEANOTHUS G.H. 'YANKEE POINT'	4" Flats	12" O.C.	Low maintenance; can be short lived with excessive irrigation; excellent native adaptive.	Minimal irrigation once established.
PYRENEES COTONEASTER	COTONEASTER CONGESTUS	4" Flats	12" O.C.	Low maintenance; can reseed in adjacent beds increasing maintenance.	Medium drought tolerance.
BEARBERRY COTONEASTER	COTONEASTER DAMMERI 'LOWFAST	4" Flats	12" O.C.	Low maintenance; can reseed in adjacent beds increasing maintenance.	Medium drought tolerance.
				Low maintenance; can reseed in adjacent beds	Medium drought
BEARBERRY COTONEASTER	COTONEASTER DAMMERI 'CORAL BEAUTY'	4" Flats	12" O.C.	increasing maintenance. Low maintenance; good desert or native	tolerance.
N.C.N.	LANTANA MONTEVIDENSIS - PURPLE	Flats	12" O.C.	landscape companion; tends to get woody and require replacement.	Good drought tolerance.
DWARF PERIWINKLE	VINCA MINOR	Flats	12" O.C.	Invasive species; should never be planted. Fast growing; Good candidate for container	Poor drought tolerance.
STAR JASMINE	TRACHELOSPERMUM JASMINOIDES	Flats	12" O.C.	gardening; Very fragrant.	Poor drought tolerance.
CREEPING RED FESCUE Glen Mor 2 Shrubs:	FESTUCA RUBRA	Seed		Low maintenance; good native landscape companion.	Medium drought tolerance.
Kanagaroo Paw	Anigozanthos 'Bush Gold'	5 Gal.		Good desert or native landscape companion.	Medium drought tolerance.
Eastwood Manzanita	Arctostaphylos glandulosa	5 Gal.		Medium sized shrub; low maintenance; good native landscape companion.	Good drought tolerance.
Big Bery Manzanita	Arctostaphylos glauca	5 Gal.		Large size shrub; low maintenance; good native landscape companion.	Good drought tolerance.
			5100	Low maintenance; can be short lived with	
Coyote Bush	Baccharis pilularis	5 Gal.	5' O.C.	excessive irrigation; excellent native adaptive. Fast growing; higher maintenance to keep its	Good drought tolerance.
Bougainvillea	Bougainvillea 'Torch Glow'	5 Gal.	10' O.C.	shape. Large succulent; low maintenance; good desert	Good drought tolerance. Excellent drought
Mexican Grass Tree	Dasylirion quadrangulatum	5 Gal.		and native landscape companion. Tough evergreen perennial; good desert and	tolerance.
Fortnight Lily	Dietes grandiflora	1 Gal.	3' O.C.	native landscape companion.	Good drought tolerance.
Brittlebush	Encelia farinosa	1 Gal.	15' O.C.	Native evergreen shrub; good native landscape companion.	Good drought tolerance.

				No maintenance and describer as active landers	Freedlant decrebs
Red Yucca	Hesperaloe parvifolia	5 Gal.	5' O.C.	No maintenance; good desert or native landscape companion.	tolerance.
N.C.N.	Philodendron 'Xanadu'	1.65	4' O.C.	Needs full shade; not a good companion for desert or native landscapes.	Not drought tolerant.
N.C.IV.	Pillodelidi Oli Xalladd	1 Gal.	4 0.0.	Low maintenance; good desert or native	Medium drought
Dwarf Variegated Flax	Phormium 'Duet'	5 Gal.	3'-4' O.C.	landscape companion. Low maintenance; good desert or native	tolerance. Medium drought
New Zealand Flax	Phormium 'Jack Spratt'	5 Gal.	3' O.C.	landscape companion.	tolerance.
New Zealand Flax	Phormium 'Platt's Black'	5 Gal.	3'-4' O.C.	Low maintenance; good desert or native landscape companion.	Medium drought tolerance.
New Zealanu Flax	FIIOIIIIdiii Fiatt's Black	J Gai.	3-4 0.c.	Low maintenance; good desert or native	Medium drought
New Zealand Flax	Phormium 'Surfer'	5 Gal.	3' O.C.	landscape companion. Low maintenance; good desert or native	tolerance. Medium drought
New Zealand Flax	Phormium 'Wings of Gold'	5 Gal.	3'-4' O.C.	landscape companion.	tolerance.
Shrub Oak	Quercus berberidifolia	5 Gal.		Large low maintanance shrub; good native landscape companion.	Good drought tolerance.
				Large low maintanance shrub; good native	-
California Coffeeberry	Rhamnus californica	5 Gal.		landscape companion. Low maintenance; good native landscape	Good drought tolerance.
Rosemary	Rosmarinus officinalus 'Boule'	5 Gal.	3' O.C.	companion; can get woody over time.	Good drought tolerance.
Glen Mor 2 Succulents:				Low maintenance; good desert or native	
Foxtail Agave	Agave attenuata	5 Gal.		landscape companion; needs afternoon shade in Riverside.	Excellent drought tolerance.
roxtan Agave	Agave attenuata	5 Gai.		Low maintenance; good desert or native	Excellent drought
Candelabrum Agave	Agave bracteosa	5 Gal.		landscape companion. Low maintenance; good desert or native	tolerance. Excellent drought
Desert Agave	Agave desertii	5 Gal.		landscape companion.	tolerance.
Fan Aloe	Aloe plicatilis	10 Gal.		Low maintenance; good desert or native landscape companion.	Excellent drought tolerance.
	•			Low maintenance; good desert or native	Excellent drought
Coral Aloe	Aloe striata	5 Gal.		landscape companion. Low maintenance; good desert or native	tolerance. Excellent drought
Narrow-leaf Chalk Sticks	Senecio talinoides ssp. Cylindrica	1 Gal.	3' O.C.	landscape companion.	tolerance.
N.C.N.	Senecio talinoides ssp. Mandraliscae	1 Gal.	2' O.C.	Low maintenance; good desert or native landscape companion.	Excellent drought tolerance.
Glen Mor 2 Grasses:	•				
Cape Rush	Chondropetalum elphantinum	1 Gal.	5' O.C.	Low maintenance; good native landscape companion.	Medium drought tolerance.
Little Ber Elevisi	Bis calls are all to little Bart	2.6.1		Low maintenance; good desert or native	Contiduo de tolono
Little Rev Flax Lily	Dianella revoluta 'Little Rev'	2 Gal.		landscape companion. Low maintenance; good native landscape	Good drought tolerance.
Elijah Blue Festuca	Festuca 'Elijah Blue'	4" Pots	12" O.C. 5' O.C.	companion.	Good drought tolerance.
Giant Wild Rye	Leymus condensatus 'Canyon Prince'	1 Gal.	5 U.C.	Aggressive and can be difficult to eradicate. Good low maintenance grass for small areas; good	Good drought tolerance. Medium drought
Libertia	Liberia pergrinans	1 Gal.	2' O.C.	native landscape companion. Low maintenance; good native landscape	tolerance.
Deer Grass	Muhlenbergia rigens	1 Gal.		companion.	Good drought tolerance.
Glen Mor 2 Hydroseed Mix:			LBS / ACRE	companion.	
Glen Mor 2 Hydroseed Mix: Giant Wild Rye Glen Mor 2 Arroyo Riparian Landscape:	Muhlenbergia rigens Leymus condensatus 'Canyon Prince'	1 Gal. Hydroseed	<u>LBS / ACRE</u> 15.0		Good drought tolerance. Good drought tolerance.
Glen Mor 2 Hydroseed Mix: Giant Wild Rye				companion. Aggressive and can be difficult to eradicate.	
Glen Mor 2 Hydroseed Mix: Giant Wild Rye Glen Mor 2 Arroyo Riparian Landscape: (Shrubs):	Leymus condensatus 'Canyon Prince'	Hydroseed	15.0	companion. Aggressive and can be difficult to eradicate. Large native shrub; propensity to sucker and form thickets; can create maintenance problems; good	Good drought tolerance. Medium drought
Glen Mor 2 Hydroseed Mix: Giant Wild Rye Glen Mor 2 Arroyo Riparian Landscape:				companion. Aggressive and can be difficult to eradicate. Large native shrub; propensity to sucker and form thickets; can create maintenance problems; good for use in stormwater swales.	Good drought tolerance.
Glen Mor 2 Hydroseed Mix: Giant Wild Rye Glen Mor 2 Arroyo Riparian Landscape: (Shrubs):	Leymus condensatus 'Canyon Prince'	Hydroseed	15.0	companion. Aggressive and can be difficult to eradicate. Large native shrub; propensity to sucker and form thickets; can create maintenance problems; good for use in stormwater swales. Fast growing native; good for use in stormwater swales; needs constant moisture; spreads and	Good drought tolerance. Medium drought
Glen Mor 2 Hydroseed Mix: Giant Wild Rye Glen Mor 2 Arroyo Riparian Landscape: (Shrubs):	Leymus condensatus 'Canyon Prince'	Hydroseed	15.0	companion. Aggressive and can be difficult to eradicate. Large native shrub; propensity to sucker and form thickets; can create maintenance problems; good for use in stormwater swales. Fast growing native; good for use in stormwater	Good drought tolerance. Medium drought
Glen Mor 2 Hydroseed Mix: Giant Wild Rye Glen Mor 2 Arroyo Riparian Landscape: (Shrubs): Wild Rose Arroyo Willow	Leymus condensatus 'Canyon Prince' Rosa californica Salix lasiolepis	Hydroseed 1 Gal. 1 Gal.	15' O.C.	companion. Aggressive and can be difficult to eradicate. Large native shrub; propensity to sucker and form thickets; can create maintenance problems; good for use in stormwater swales. Fast growing native; good for use in stormwater swales; needs constant moisture; spreads and creates thickets increasing maintenance requirements. Slower growing native willow; excellent for wildlife	Good drought tolerance. Medium drought tolerance. Not drought tolerant. Moderately drought
Glen Mor 2 Hydroseed Mix: Giant Wild Rye Glen Mor 2 Arroyo Riparian Landscape: (Shrubs): Wild Rose	Leymus condensatus 'Canyon Prince' Rosa californica	Hydroseed 1 Gal.	15.0 15' O.C.	companion. Aggressive and can be difficult to eradicate. Large native shrub; propensity to sucker and form thickets; can create maintenance problems; good for use in stormwater swales. Fast growing native; good for use in stormwater swales; needs constant moisture; spreads and creates thickets increasing maintenance requirements.	Good drought tolerance. Medium drought tolerance. Not drought tolerant.
Glen Mor 2 Hydroseed Mix: Giant Wild Rye Glen Mor 2 Arroyo Riparian Landscape: (Shrubs): Wild Rose Arroyo Willow Gooding's Willow White Sage	Leymus condensatus 'Canyon Prince' Rosa californica Salix lasiolepis	Hydroseed 1 Gal. 1 Gal.	15' O.C.	companion. Aggressive and can be difficult to eradicate. Large native shrub; propensity to sucker and form thickets; can create maintenance problems; good for use in stormwater swales. Fast growing native; good for use in stormwater swales; needs constant moisture; spreads and creates thickets increasing maintenance requirements. Slower growing native willow; excellent for wildlife habitat creation; extensive root system.	Good drought tolerance. Medium drought tolerance. Not drought tolerant. Moderately drought
Glen Mor 2 Hydroseed Mix: Giant Wild Rye Glen Mor 2 Arroyo Riparian Landscape: (Shrubs): Wild Rose Arroyo Willow Gooding's Willow White Sage (Groundcovers):	Leymus condensatus 'Canyon Prince' Rosa californica Salix lasiolepis Salix goodingii Salvia apiana	1 Gal. 1 Gal. 5 Gal.	15' O.C. 15' O.C. 15' O.C.	companion. Aggressive and can be difficult to eradicate. Large native shrub; propensity to sucker and form thickets; can create maintenance problems; good for use in stormwater swales. Fast growing native; good for use in stormwater swales; needs constant moisture; spreads and creates thickets increasing maintenance requirements. Slower growing native willow; excellent for wildlife habitat creation; extensive root system. Native; bees love this plant; good native or desert landscape companion. Low maintenance; good native landscape	Good drought tolerance. Medium drought tolerance. Not drought tolerant. Moderately drought tolerance. Good drought tolerance.
Glen Mor 2 Hydroseed Mix: Giant Wild Rye Glen Mor 2 Arroyo Riparian Landscape: (Shrubs): Wild Rose Arroyo Willow Gooding's Willow White Sage (Groundcovers): Deergrass	Leymus condensatus 'Canyon Prince' Rosa californica Salix lasiolepis Salix goodingii	1 Gal. 1 Gal. 5 Gal.	15.0 15' O.C. 15' O.C.	companion. Aggressive and can be difficult to eradicate. Large native shrub; propensity to sucker and form thickets; can create maintenance problems; good for use in stormwater swales. Fast growing native; good for use in stormwater swales; needs constant moisture; spreads and creates thickets increasing maintenance requirements. Slower growing native willow; excellent for wildlife habitat creation; extensive root system. Native; bees love this plant; good native or desert landscape companion.	Good drought tolerance. Medium drought tolerance. Not drought tolerant. Moderately drought tolerance.
Glen Mor 2 Hydroseed Mix: Giant Wild Rye Glen Mor 2 Arroyo Riparian Landscape: (Shrubs): Wild Rose Arroyo Willow Gooding's Willow White Sage (Groundcovers):	Leymus condensatus 'Canyon Prince' Rosa californica Salix lasiolepis Salix goodingii Salvia apiana	1 Gal. 1 Gal. 5 Gal.	15' O.C. 15' O.C. 15' O.C.	companion. Aggressive and can be difficult to eradicate. Large native shrub; propensity to sucker and form thickets; can create maintenance problems; good for use in stormwater swales. Fast growing native; good for use in stormwater swales; needs constant moisture; spreads and creates thickets increasing maintenance requirements. Slower growing native willow; excellent for wildlife habitat creation; extensive root system. Native; bees love this plant; good native or desert landscape companion. Low maintenance; good native landscape companion.	Good drought tolerance. Medium drought tolerance. Not drought tolerant. Moderately drought tolerance. Good drought tolerance. Good drought tolerance.
Glen Mor 2 Hydroseed Mix: Giant Wild Rye Glen Mor 2 Arroyo Riparian Landscape: (Shrubs): Wild Rose Arroyo Willow Gooding's Willow White Sage (Groundcovers): Deergrass Glen Mor 2 Arroyo Riparian Scrub Landscape: (Shrubs):	Leymus condensatus 'Canyon Prince' Rosa californica Salix lasiolepis Salix goodingii Salvia apiana Muhlenbergia rigens	1 Gal. 1 Gal. 5 Gal. Plugs	15.0 15' O.C. 15' O.C. 15' O.C. 3' O.C.	companion. Aggressive and can be difficult to eradicate. Large native shrub; propensity to sucker and form thickets; can create maintenance problems; good for use in stormwater swales. Fast growing native; good for use in stormwater swales; needs constant moisture; spreads and creates thickets increasing maintenance requirements. Slower growing native willow; excellent for wildlife habitat creation; extensive root system. Native; bees love this plant; good native or desert landscape companion. Low maintenance; good native landscape companion.	Good drought tolerance. Medium drought tolerance. Not drought tolerant. Moderately drought tolerance. Good drought tolerance. Good drought tolerance.
Glen Mor 2 Hydroseed Mix: Giant Wild Rye Glen Mor 2 Arroyo Riparian Landscape: (Shrubs): Wild Rose Arroyo Willow Gooding's Willow White Sage (Groundcovers): Deergrass Glen Mor 2 Arroyo Riparian Scrub Landscape: (Shrubs): Mule Fat	Leymus condensatus 'Canyon Prince' Rosa californica Salix lasiolepis Salix goodingii Salvia apiana Muhlenbergia rigens Baccharis salicifolia	1 Gal. 1 Gal. 5 Gal. Plugs	15' O.C. 15' O.C. 15' O.C. 15' O.C. 3' O.C.	companion. Aggressive and can be difficult to eradicate. Large native shrub; propensity to sucker and form thickets; can create maintenance problems; good for use in stormwater swales. Fast growing native; good for use in stormwater swales; needs constant moisture; spreads and creates thickets increasing maintenance requirements. Slower growing native willow; excellent for wildlife habitat creation; extensive root system. Native; bees love this plant; good native or desert landscape companion. Low maintenance; good native landscape companion. Large native shrub forming a thicket; good for use in stormwater swales.	Good drought tolerance. Medium drought tolerance. Not drought tolerant. Moderately drought tolerance. Good drought tolerance. Good drought tolerance. Moderate drought tolerance. Excellent drought
Glen Mor 2 Hydroseed Mix: Giant Wild Rye Glen Mor 2 Arroyo Riparian Landscape: (Shrubs): Wild Rose Arroyo Willow Gooding's Willow White Sage (Groundcovers): Deergrass Glen Mor 2 Arroyo Riparian Scrub Landscape: (Shrubs):	Leymus condensatus 'Canyon Prince' Rosa californica Salix lasiolepis Salix goodingii Salvia apiana Muhlenbergia rigens	1 Gal. 1 Gal. 5 Gal. Plugs	15.0 15' O.C. 15' O.C. 15' O.C. 3' O.C.	companion. Aggressive and can be difficult to eradicate. Large native shrub; propensity to sucker and form thickets; can create maintenance problems; good for use in stormwater swales. Fast growing native; good for use in stormwater swales; needs constant moisture; spreads and creates thickets increasing maintenance requirements. Slower growing native willow; excellent for wildlife habitat creation; extensive root system. Native; bees love this plant; good native or desert landscape companion. Low maintenance; good native landscape companion.	Good drought tolerance. Medium drought tolerance. Not drought tolerant. Moderately drought tolerance. Good drought tolerance. Good drought tolerance.
Glen Mor 2 Hydroseed Mix: Giant Wild Rye Glen Mor 2 Arroyo Riparian Landscape: (Shrubs): Wild Rose Arroyo Willow Gooding's Willow White Sage (Groundcovers): Deergrass Glen Mor 2 Arroyo Riparian Scrub Landscape: (Shrubs): Mule Fat Skunkbrush	Leymus condensatus 'Canyon Prince' Rosa californica Salix lasiolepis Salix goodingii Salvia apiana Muhlenbergia rigens Baccharis salicifolia Rhus trilobata	1 Gal. 1 Gal. 5 Gal. Plugs 1 Gal. 1 Gal.	15' O.C. 15' O.C. 15' O.C. 15' O.C. 3' O.C.	companion. Aggressive and can be difficult to eradicate. Large native shrub; propensity to sucker and form thickets; can create maintenance problems; good for use in stormwater swales. Fast growing native; good for use in stormwater swales; needs constant moisture; spreads and creates thickets increasing maintenance requirements. Slower growing native willow; excellent for wildlife habitat creation; extensive root system. Native; bees love this plant; good native or desert landscape companion. Low maintenance; good native landscape companion. Large native shrub forming a thicket; good for use in stormwater swales. Native; good native landscape companion. Large native shrub; propensity to sucker and form thickets can create maintenance problems; good	Good drought tolerance. Medium drought tolerance. Not drought tolerant. Moderately drought tolerance. Good drought tolerance. Good drought tolerance. Moderate drought tolerance. Excellent drought tolerance. Medium drought
Glen Mor 2 Hydroseed Mix: Giant Wild Rye Glen Mor 2 Arroyo Riparian Landscape: (Shrubs): Wild Rose Arroyo Willow Gooding's Willow White Sage (Groundcovers): Deergrass Glen Mor 2 Arroyo Riparian Scrub Landscape: (Shrubs):	Leymus condensatus 'Canyon Prince' Rosa californica Salix lasiolepis Salix goodingii Salvia apiana Muhlenbergia rigens Baccharis salicifolia	1 Gal. 1 Gal. 5 Gal. Plugs	15' O.C. 15' O.C. 15' O.C. 15' O.C. 3' O.C.	companion. Aggressive and can be difficult to eradicate. Large native shrub; propensity to sucker and form thickets; can create maintenance problems; good for use in stormwater swales. Fast growing native; good for use in stormwater swales; needs constant moisture; spreads and creates thickets increasing maintenance requirements. Slower growing native willow; excellent for wildlife habitat creation; extensive root system. Native; bees love this plant; good native or desert landscape companion. Low maintenance; good native landscape companion. Large native shrub forming a thicket; good for use in stormwater swales. Native; good native landscape companion. Large native shrub; propensity to sucker and form	Medium drought tolerance. Medium drought tolerance. Not drought tolerant. Moderately drought tolerance. Good drought tolerance. Good drought tolerance. Moderate drought tolerance. Excellent drought tolerance.
Glen Mor 2 Hydroseed Mix: Giant Wild Rye Glen Mor 2 Arroyo Riparian Landscape: (Shrubs): Wild Rose Arroyo Willow Gooding's Willow White Sage (Groundcovers): Deergrass Glen Mor 2 Arroyo Riparian Scrub Landscape: (Shrubs): Mule Fat Skunkbrush	Leymus condensatus 'Canyon Prince' Rosa californica Salix lasiolepis Salix goodingii Salvia apiana Muhlenbergia rigens Baccharis salicifolia Rhus trilobata	1 Gal. 1 Gal. 5 Gal. Plugs 1 Gal. 1 Gal.	15' O.C. 15' O.C. 15' O.C. 15' O.C. 3' O.C.	companion. Aggressive and can be difficult to eradicate. Large native shrub; propensity to sucker and form thickets; can create maintenance problems; good for use in stormwater swales. Fast growing native; good for use in stormwater swales; needs constant moisture; spreads and creates thickets increasing maintenance requirements. Slower growing native willow; excellent for wildlife habitat creation; extensive root system. Native; bees love this plant; good native or desert landscape companion. Low maintenance; good native landscape companion. Large native shrub forming a thicket; good for use in stormwater swales. Native; good native landscape companion. Large native shrub; propensity to sucker and form thickets can create maintenance problems; good for use in stormwater swales. Large native shrub; excellent for wildlife habitat creation.	Good drought tolerance. Medium drought tolerance. Not drought tolerant. Moderately drought tolerance. Good drought tolerance. Good drought tolerance. Moderate drought tolerance. Excellent drought tolerance. Medium drought
Glen Mor 2 Hydroseed Mix: Giant Wild Rye Glen Mor 2 Arroyo Riparian Landscape: (Shrubs): Wild Rose Arroyo Willow Gooding's Willow White Sage (Groundcovers): Deergrass Glen Mor 2 Arroyo Riparian Scrub Landscape: (Shrubs): Mule Fat Skunkbrush Wild Rose	Leymus condensatus 'Canyon Prince' Rosa californica Salix lasiolepis Salix goodingii Salvia apiana Muhlenbergia rigens Baccharis salicifolia Rhus trilobata Rosa californica	Hydroseed 1 Gal. 1 Gal. 5 Gal. Plugs 1 Gal. 1 Gal. 1 Gal.	15.0 15' O.C. 15' O.C. 15' O.C. 3' O.C. 10' O.C. 10' O.C.	companion. Aggressive and can be difficult to eradicate. Large native shrub; propensity to sucker and form thickets; can create maintenance problems; good for use in stormwater swales. Fast growing native; good for use in stormwater swales; needs constant moisture; spreads and creates thickets increasing maintenance requirements. Slower growing native willow; excellent for wildlife habitat creation; extensive root system. Native; bees love this plant; good native or desert landscape companion. Low maintenance; good native landscape companion. Large native shrub forming a thicket; good for use in stormwater swales. Native; good native landscape companion. Large native shrub; propensity to sucker and form thickets can create maintenance problems; good for use in stormwater swales. Large native shrub; excellent for wildlife habitat creation. Fast growing native; good for use in stormwater swales; needs constant moisture; spreads and	Good drought tolerance. Medium drought tolerance. Not drought tolerant. Moderately drought tolerance. Good drought tolerance. Good drought tolerance. Moderate drought tolerance. Excellent drought tolerance. Medium drought tolerance.
Glen Mor 2 Hydroseed Mix: Giant Wild Rye Glen Mor 2 Arroyo Riparian Landscape: (Shrubs): Wild Rose Arroyo Willow Gooding's Willow White Sage (Groundcovers): Deergrass Glen Mor 2 Arroyo Riparian Scrub Landscape: (Shrubs): Mule Fat Skunkbrush Wild Rose Mexican (or Blue) Elderberry	Leymus condensatus 'Canyon Prince' Rosa californica Salix lasiolepis Salix goodingii Salvia apiana Muhlenbergia rigens Baccharis salicifolia Rhus trilobata Rosa californica Sambucus mexicanus	Hydroseed 1 Gal. 1 Gal. 5 Gal. Plugs 1 Gal. 1 Gal. 1 Gal. 5 Gal.	15' O.C. 15' O.C. 15' O.C. 15' O.C. 3' O.C. 10' O.C. 10' O.C. 10' O.C.	companion. Aggressive and can be difficult to eradicate. Large native shrub; propensity to sucker and form thickets; can create maintenance problems; good for use in stormwater swales. Fast growing native; good for use in stormwater swales; needs constant moisture; spreads and creates thickets increasing maintenance requirements. Slower growing native willow; excellent for wildlife habitat creation; extensive root system. Native; bees love this plant; good native or desert landscape companion. Low maintenance; good native landscape companion. Large native shrub forming a thicket; good for use in stormwater swales. Native; good native landscape companion. Large native shrub; propensity to sucker and form thickets can create maintenance problems; good for use in stormwater swales. Large native shrub; excellent for wildlife habitat creation. Fast growing native; good for use in stormwater swales, needs constant moisture; spreads and creates thickets increasing maintenance	Good drought tolerance. Medium drought tolerance. Not drought tolerant. Moderately drought tolerance. Good drought tolerance. Moderate drought tolerance. Excellent drought tolerance. Medium drought tolerance. Good drought tolerance.
Glen Mor 2 Hydroseed Mix: Giant Wild Rye Glen Mor 2 Arroyo Riparian Landscape: (Shrubs): Wild Rose Arroyo Willow Gooding's Willow White Sage (Groundcovers): Deergrass Glen Mor 2 Arroyo Riparian Scrub Landscape: (Shrubs): Mule Fat Skunkbrush Wild Rose	Leymus condensatus 'Canyon Prince' Rosa californica Salix lasiolepis Salix goodingii Salvia apiana Muhlenbergia rigens Baccharis salicifolia Rhus trilobata Rosa californica	Hydroseed 1 Gal. 1 Gal. 5 Gal. Plugs 1 Gal. 1 Gal. 1 Gal.	15.0 15' O.C. 15' O.C. 15' O.C. 3' O.C. 10' O.C. 10' O.C.	companion. Aggressive and can be difficult to eradicate. Large native shrub; propensity to sucker and form thickets; can create maintenance problems; good for use in stormwater swales. Fast growing native; good for use in stormwater swales in stormwater swales preads constant moisture; spreads and creates thickets increasing maintenance requirements. Slower growing native willow; excellent for wildlife habitat creation; extensive root system. Native; bees love this plant; good native or desert landscape companion. Low maintenance; good native landscape companion. Large native shrub forming a thicket; good for use in stormwater swales. Native; good native landscape companion. Large native shrub; propensity to sucker and form thickets can create maintenance problems; good for use in stormwater swales. Large native shrub; excellent for wildlife habitat creation. Fast growing native; good for use in stormwater swales; needs constant moisture; spreads and creates thickets increasing maintenance requirements.	Good drought tolerance. Medium drought tolerance. Not drought tolerant. Moderately drought tolerance. Good drought tolerance. Good drought tolerance. Moderate drought tolerance. Excellent drought tolerance. Medium drought tolerance.
Glen Mor 2 Hydroseed Mix: Giant Wild Rye Glen Mor 2 Arroyo Riparian Landscape: (Shrubs): Wild Rose Arroyo Willow Gooding's Willow White Sage (Groundcovers): Deergrass Glen Mor 2 Arroyo Riparian Scrub Landscape: (Shrubs): Mule Fat Skunkbrush Wild Rose Mexican (or Blue) Elderberry Arroyo Willow (Groundcovers):	Rosa californica Salix lasiolepis Salix goodingii Salvia apiana Muhlenbergia rigens Baccharis salicifolia Rhus trilobata Rosa californica Sambucus mexicanus	Hydroseed 1 Gal. 1 Gal. 5 Gal. Plugs 1 Gal. 1 Gal. 5 Gal. 5 Gal.	15.0 15' O.C. 15' O.C. 15' O.C. 3' O.C. 10' O.C. 10' O.C. 10' O.C.	companion. Aggressive and can be difficult to eradicate. Large native shrub; propensity to sucker and form thickets; can create maintenance problems; good for use in stormwater swales. Fast growing native; good for use in stormwater swales; needs constant moisture; spreads and creates thickets increasing maintenance requirements. Slower growing native willow; excellent for wildlife habitat creation; extensive root system. Native; bees love this plant; good native or desert landscape companion. Low maintenance; good native landscape companion. Large native shrub forming a thicket; good for use in stormwater swales. Native; good native landscape companion. Large native shrub; propensity to sucker and form thickets can create maintenance problems; good for use in stormwater swales. Large native shrub; excellent for wildlife habitat creation. Fast growing native; good for use in stormwater swales; needs constant moisture; spreads and creates thickets increasing maintenance requirements. Low maintenance; good native landscape	Good drought tolerance. Medium drought tolerance. Not drought tolerant. Moderately drought tolerance. Good drought tolerance. Moderate drought tolerance. Excellent drought tolerance. Medium drought tolerance. Good drought tolerance. Medium drought tolerance. Moderate drought tolerance. Moderate drought tolerance.
Glen Mor 2 Hydroseed Mix: Giant Wild Rye Glen Mor 2 Arroyo Riparian Landscape: (Shrubs): Wild Rose Arroyo Willow Gooding's Willow White Sage (Groundcovers): Deergrass Glen Mor 2 Arroyo Riparian Scrub Landscape: (Shrubs): Mule Fat Skunkbrush Wild Rose Mexican (or Blue) Elderberry Arroyo Willow (Groundcovers): Deergrass Glen Mor 2 Arror Scrub Landscape:	Leymus condensatus 'Canyon Prince' Rosa californica Salix lasiolepis Salix goodingii Salvia apiana Muhlenbergia rigens Baccharis salicifolia Rhus trilobata Rosa californica Sambucus mexicanus	Hydroseed 1 Gal. 1 Gal. 5 Gal. Plugs 1 Gal. 1 Gal. 1 Gal. 5 Gal.	15' O.C. 15' O.C. 15' O.C. 15' O.C. 3' O.C. 10' O.C. 10' O.C. 10' O.C.	companion. Aggressive and can be difficult to eradicate. Large native shrub; propensity to sucker and form thickets; can create maintenance problems; good for use in stormwater swales. Fast growing native; good for use in stormwater swales in stormwater swales preads constant moisture; spreads and creates thickets increasing maintenance requirements. Slower growing native willow; excellent for wildlife habitat creation; extensive root system. Native; bees love this plant; good native or desert landscape companion. Low maintenance; good native landscape companion. Large native shrub forming a thicket; good for use in stormwater swales. Native; good native landscape companion. Large native shrub; propensity to sucker and form thickets can create maintenance problems; good for use in stormwater swales. Large native shrub; excellent for wildlife habitat creation. Fast growing native; good for use in stormwater swales; needs constant moisture; spreads and creates thickets increasing maintenance requirements.	Good drought tolerance. Medium drought tolerance. Not drought tolerant. Moderately drought tolerance. Good drought tolerance. Moderate drought tolerance. Excellent drought tolerance. Medium drought tolerance. Good drought tolerance.
Glen Mor 2 Hydroseed Mix: Giant Wild Rye Glen Mor 2 Arroyo Riparian Landscape: (Shrubs): Wild Rose Arroyo Willow Gooding's Willow White Sage (Groundcovers): Deergrass Glen Mor 2 Arroyo Riparian Scrub Landscape: (Shrubs): Mule Fat Skunkbrush Wild Rose Mexican (or Blue) Elderberry Arroyo Willow (Groundcovers): Deergrass	Rosa californica Salix lasiolepis Salix goodingii Salvia apiana Muhlenbergia rigens Baccharis salicifolia Rhus trilobata Rosa californica Sambucus mexicanus	Hydroseed 1 Gal. 1 Gal. 5 Gal. Plugs 1 Gal. 1 Gal. 5 Gal. 5 Gal.	15.0 15' O.C. 15' O.C. 15' O.C. 3' O.C. 10' O.C. 10' O.C. 10' O.C.	Aggressive and can be difficult to eradicate. Large native shrub; propensity to sucker and form thickets; can create maintenance problems; good for use in stormwater swales. Fast growing native; good for use in stormwater swales; needs constant moisture; spreads and creates thickets increasing maintenance requirements. Slower growing native willow; excellent for wildlife habitat creation; extensive root system. Native; bees love this plant; good native or desert landscape companion. Low maintenance; good native landscape companion. Large native shrub forming a thicket; good for use in stormwater swales. Native; good native landscape companion. Large native shrub; propensity to sucker and form thickets can create maintenance problems; good for use in stormwater swales. Large native shrub; excellent for wildlife habitat creation. Fast growing native; good for use in stormwater swales; needs constant moisture; spreads and creates thickets increasing maintenance requirements. Low maintenance; good native landscape companion.	Good drought tolerance. Medium drought tolerance. Not drought tolerant. Moderately drought tolerance. Good drought tolerance. Moderate drought tolerance. Excellent drought tolerance. Medium drought tolerance. Good drought tolerance. Medium drought tolerance. Moderate drought tolerance. Moderate drought tolerance.
Glen Mor 2 Hydroseed Mix: Giant Wild Rye Glen Mor 2 Arroyo Riparian Landscape: (Shrubs): Wild Rose Arroyo Willow Gooding's Willow White Sage (Groundcovers): Deergrass Glen Mor 2 Arroyo Riparian Scrub Landscape: (Shrubs): Mule Fat Skunkbrush Wild Rose Mexican (or Blue) Elderberry Arroyo Willow (Groundcovers): Deergrass Glen Mor 2 Arror Scrub Landscape:	Rosa californica Salix lasiolepis Salix goodingii Salvia apiana Muhlenbergia rigens Baccharis salicifolia Rhus trilobata Rosa californica Sambucus mexicanus	Hydroseed 1 Gal. 1 Gal. 5 Gal. Plugs 1 Gal. 1 Gal. 5 Gal. 5 Gal.	15.0 15' O.C. 15' O.C. 15' O.C. 3' O.C. 10' O.C. 10' O.C. 10' O.C.	companion. Aggressive and can be difficult to eradicate. Large native shrub; propensity to sucker and form thickets; can create maintenance problems; good for use in stormwater swales. Fast growing native; good for use in stormwater swales; needs constant moisture; spreads and creates thickets increasing maintenance requirements. Slower growing native willow; excellent for wildlife habitat creation; extensive root system. Native; bees love this plant; good native or desert landscape companion. Low maintenance; good native landscape companion. Large native shrub forming a thicket; good for use in stormwater swales. Native; good native landscape companion. Large native shrub; propensity to sucker and form thickets can create maintenance problems; good for use in stormwater swales. Large native shrub; excellent for wildlife habitat creation. Fast growing native; good for use in stormwater swales; needs constant moisture; spreads and creates thickets increasing maintenance requirements. Low maintenance; good native landscape companion. This is California sagebrush; rough appearance; poor oranmental landscape qualities.	Good drought tolerance. Medium drought tolerance. Not drought tolerant. Moderately drought tolerance. Good drought tolerance. Moderate drought tolerance. Excellent drought tolerance. Medium drought tolerance. Good drought tolerance. Medium drought tolerance. Moderate drought tolerance. Moderate drought tolerance.
Glen Mor 2 Hydroseed Mix: Giant Wild Rye Glen Mor 2 Arroyo Riparian Landscape: (Shrubs): Wild Rose Arroyo Willow Gooding's Willow White Sage (Groundcovers): Deergrass Glen Mor 2 Arroyo Riparian Scrub Landscape: (Shrubs): Mule Fat Skunkbrush Wild Rose Mexican (or Blue) Elderberry Arroyo Willow (Groundcovers): Deergrass Glen Mor 2 Arror Scrub Landscape: (Scrub Container Plants): California Sagebrush	Leymus condensatus 'Canyon Prince' Rosa californica Salix lasiolepis Salix goodingii Salvia apiana Muhlenbergia rigens Baccharis salicifolia Rhus trilobata Rosa californica Sambucus mexicanus Salix lasiolepis Muhlenbergia rigens	Hydroseed 1 Gal. 1 Gal. 5 Gal. Plugs 1 Gal. 1 Gal. 5 Gal. Plugs 1 Gal. 1 Gal.	15.0 15' O.C. 15' O.C. 15' O.C. 10' O.C. 10' O.C. 10' O.C. 10' O.C.	companion. Aggressive and can be difficult to eradicate. Large native shrub; propensity to sucker and form thickets; can create maintenance problems; good for use in stormwater swales. Fast growing native; good for use in stormwater swales; needs constant moisture; spreads and creates thickets increasing maintenance requirements. Slower growing native willow; excellent for wildlife habitat creation; extensive root system. Native; bees love this plant; good native or desert landscape companion. Low maintenance; good native landscape companion. Large native shrub forming a thicket; good for use in stormwater swales. Native; good native landscape companion. Large native shrub; propensity to sucker and form thickets can create maintenance problems; good for use in stormwater swales. Large native shrub; excellent for wildlife habitat creation. Fast growing native; good for use in stormwater swales, needs constant moisture; spreads and creates thickets increasing maintenance requirements. Low maintenance; good native landscape companion. This is California sagebrush; rough appearance;	Good drought tolerance. Medium drought tolerant. Moderately drought tolerance. Good drought tolerance. Good drought tolerance. Moderate drought tolerance. Excellent drought tolerance. Medium drought tolerance. Good drought tolerance. Medium drought tolerance. Good drought tolerance. Good drought tolerance.
Glen Mor 2 Hydroseed Mix: Giant Wild Rye Glen Mor 2 Arroyo Riparian Landscape: (Shrubs): Wild Rose Arroyo Willow Gooding's Willow White Sage (Groundcovers): Deergrass Glen Mor 2 Arroyo Riparian Scrub Landscape: (Shrubs): Mule Fat Skunkbrush Wild Rose Mexican (or Blue) Elderberry Arroyo Willow (Groundcovers): Deergrass Glen Mor 2 Arror Scrub Landscape: (Scrub Container Plants): California Sagebrush Desert Brittlebush	Leymus condensatus 'Canyon Prince' Rosa californica Salix lasiolepis Salix goodingii Salvia apiana Muhlenbergia rigens Baccharis salicifolia Rhus trilobata Rosa californica Sambucus mexicanus Salix lasiolepis Muhlenbergia rigens Artemisia californica Encelia farinosa	Hydroseed 1 Gal. 1 Gal. 5 Gal. Plugs 1 Gal. 1 Gal. 5 Gal. Plugs 1 Gal. 1 Gal. 1 Gal. 1 Gal. 1 Gal. 1 Gal.	15.0 15' O.C. 15' O.C. 15' O.C. 15' O.C. 10' O.C. 10' O.C. 10' O.C. 10' O.C. 10' O.C.	companion. Aggressive and can be difficult to eradicate. Large native shrub; propensity to sucker and form thickets; can create maintenance problems; good for use in stormwater swales. Fast growing native; good for use in stormwater swales; needs constant moisture; spreads and creates thickets increasing maintenance requirements. Slower growing native willow; excellent for wildlife habitat creation; extensive root system. Native; bees love this plant; good native or desert landscape companion. Low maintenance; good native landscape companion. Large native shrub forming a thicket; good for use in stormwater swales. Native; good native landscape companion. Large native shrub; propensity to sucker and form thickets can create maintenance problems; good for use in stormwater swales. Large native shrub; excellent for wildlife habitat creation. Fast growing native; good for use in stormwater swales; needs constant moisture; spreads and creates thickets increasing maintenance requirements. Low maintenance; good native landscape companion. This is California sagebrush; rough appearance; poor oranmental landscape qualities. Native evergreen shrub; good native landscape companion.	Medium drought tolerance. Not drought tolerant. Moderately drought tolerance. Good drought tolerance. Good drought tolerance. Moderate drought tolerance. Excellent drought tolerance. Medium drought tolerance. Good drought tolerance. Good drought tolerance. Good drought tolerance.
Glen Mor 2 Hydroseed Mix: Giant Wild Rye Glen Mor 2 Arroyo Riparian Landscape: (Shrubs): Wild Rose Arroyo Willow Gooding's Willow White Sage (Groundcovers): Deergrass Glen Mor 2 Arroyo Riparian Scrub Landscape: (Shrubs): Mule Fat Skunkbrush Wild Rose Mexican (or Blue) Elderberry Arroyo Willow (Groundcovers): Deergrass Glen Mor 2 Arror Scrub Landscape: (Scrub Container Plants): California Sagebrush	Leymus condensatus 'Canyon Prince' Rosa californica Salix lasiolepis Salix goodingii Salvia apiana Muhlenbergia rigens Baccharis salicifolia Rhus trilobata Rosa californica Sambucus mexicanus Salix lasiolepis Muhlenbergia rigens	Hydroseed 1 Gal. 1 Gal. 5 Gal. Plugs 1 Gal. 1 Gal. 5 Gal. Plugs 1 Gal. 1 Gal.	15.0 15' O.C. 15' O.C. 15' O.C. 10' O.C. 10' O.C. 10' O.C. 10' O.C.	companion. Aggressive and can be difficult to eradicate. Large native shrub; propensity to sucker and form thickets; can create maintenance problems; good for use in stormwater swales. Fast growing native; good for use in stormwater swales; needs constant moisture; spreads and creates thickets increasing maintenance requirements. Slower growing native willow; excellent for wildlife habitat creation; extensive root system. Native; bees love this plant; good native or desert landscape companion. Low maintenance; good native landscape companion. Large native shrub forming a thicket; good for use in stormwater swales. Native; good native landscape companion. Large native shrub; propensity to sucker and form thickets can create maintenance problems; good for use in stormwater swales. Large native shrub; excellent for wildlife habitat creation. Fast growing native; good for use in stormwater swales; needs constant moisture; spreads and creates thickets increasing maintenance requirements. Low maintenance; good native landscape companion. This is California sagebrush; rough appearance; poor oranmental landscape qualities. Native evergreen shrub; good native landscape companion.	Good drought tolerance. Medium drought tolerance. Not drought tolerant. Moderately drought tolerance. Good drought tolerance. Moderate drought tolerance. Moderate drought tolerance. Excellent drought tolerance. Medium drought tolerance. Good drought tolerance. Good drought tolerance. Good drought tolerance.

	2			Evergreen native small Oak; low maintenance;	
Scrub Oak	Quercus berberidifolia	5 Gal.	10' O.C.	good native landscape companion. Native; bees love this plant; good native or desert	Good drought tolerance.
White Sage	Salvia Apiana	1 Gal.	10' O.C.	landscape companion. Large shrub; no maintenance; good desert or	Good drought tolerance. Excellent drought
Our Lord's Candle	Yucca whipplei	1 Gal.	10' O.C.	native landscape companion.	tolerance.
COFFEEBERRY	RHAMNUS CALIFORNICA	15 Gal.		Large evergreen native shrub; low maintenance. Evergreen groundcover; could be difficult to	Good drought tolerance.
WOOLYBUSH	ADENANTHOS MEISNERI	5 Gal.		source. Tough aggressive large shrub; requires constant	Good drought tolerance. Medium drought
SILVERBERRY	ELEAGNUS PUNGENS	5 Gal.		pruning to keep it at manageable size. Large shrub; low maintenance; good native	tolerance. Excellent drought
FUSCHIA-FLOWERING GOOSEBERRY	RIBES SPECIOSUM	5 Gal.		landscape companion. Low maintenance; good desert or native	tolerance.
FOXTAIL AGAVE	AGAVE ATTENUATA	1 Gal.		landscape companion; needs afternoon shade in Riverside. Low maintenance but can outgrow planting bed and need to be cut back; good desert or native	Excellent drought tolerance.
N.C.N.	ACACIA TEDOLENS 'LOW BOY'	1 Gal.		landscape companion. Low maintenance; can reseed in adjacent beds	Good drought tolerance. Medium drought
X	COTONEASTER DAMMERI 'LOWFAST'	1 Gal.		increasing maintenance. Low maintenance; can be short lived with	tolerance. Excellent drought
CARMEL CREEPER	CEANOTHUS G. H. 'YANKEE POINT'	1 Gal.		excessive irrigation; excellent native adaptive. Tough evergreen perennial; good desert and	tolerance.
FORTNIGHT LILY	DIETES BICOLOR	1 Gal.		native landscape companion. Tough aggressive large shrub; requires constant	Good drought tolerance. Medium drought
SILVERBERRY	ELEAGNUS PUNGENS	1 Gal.		pruning to keep it at manageable size.	tolerance. Moderate drought tolerance in Southern
SOFT RUSH	JUNCUS EFFUSUS 'QUARTZ CREEK'	1 Gal.		Evergreen rush used in stormwater gardens. Ornamental grass; low maintenance; good native	California. Moderate drought
JAPANESE SILVER GRASS	MISCANTHUS S. 'MORNING LIGHT'	1 Gal.		landscape companion. Tall ornamental grass; low maintenance; good	tolerance. Moderate drought
JAPANESE SILVER GRASS	MISCANTHUS S. 'BABARET'	1 Gal.		native landscape companion. Low maintenance; good native landscape	tolerance.
PURPLE MUHLY	MYHLENBERGIA 'REGAL MIST'	1 Gal.		companion. Low maintenance; needs some afternoon shade in	Good drought tolerance.
WHEELERS DWARF GIANT CHAIN FERN	PITTOSPORUM TOBIRA 'WHEELER'S DWARF' WOORDWARDIA FIMBRIATA	1 Gal. 1 Gal.		Riverside; branches can be brittle when stepped upon.	Medium drought tolerance.
PINK MUHLY	MUHLENBERGIA 'REGAL MIST'			Low maintenance; good native landscape companion.	Good drought tolerance.
					Moderate drought tolerance in Southern
SOFT RUSH	JUNCU 'QUARTZ CREEK'			Evergreen rush used in stormwater gardens. Evergreen short lived groundcover; good for	California.
N.C.N.	ACACIA REDOLENS 'LOW BOY'	4" FLATS	18" O.C.	erosion control. Low evergreen groundcover; prefers some	Good drought tolerance.
DYMONDIA	DYMONDIA MARGARATAE	FLATS	6" O.C.	afternoon shade. Tough flowering groundcover; can reseed; looks	Good drought tolerance. Moderate drought
SANTA BARBARA DAISY	ERIGERON KARVINSKIANUS	4" FLATS	12" O.C.	best with protection from afternoon sun.	tolerance. Moderate drought
GAZANIA - ORANGE FLOWER	GAZANIA RIGENS LEUCOLAENA	FLATS	12" O.C.	Flowering groundcover; low maintenance. Native perennial; plant in shade with protection	tolerance. Moderate drought
CORAL BELLS	HEUCHERA MAXIMA	4" FLATS	12" O.C.	from afternoon sun; low maintenance. Plant in shade with protection from afternoon	tolerance.
WESTERN SWORD FERN	POLYSTICHUM MUNITUM	4" FLATS	12" O.C.	sun; low maintenance. Fast growing; Good candidate for container	Poor drought tolerance.
STAR JASMINE	TRACHELOSPERMUM JASMINOIDES	4" FLATS	12" O.C.	gardening; Very fragrant. Fast growing evergreen groundcover; can get woody over time; good native landscape	Poor drought tolerance.
PROSTRATE ROSEMARY	ROSMARINUS OFFICINALIS 'PROSTRATA'	FLATS	12" O.C.	companion. Very fast growing evergreen vine; can be high	Good drought tolerance. Moderate drought
BLOOD RED TRUMPET VINE	DISTICTIS BUCCINATORIA	15 Gal.		maintenance if need to control growth.	tolerance.
				Low maintenance; good desert or native landscape companion; needs afternoon shade in	Excellent drought
FOX TAIL AGAVE	AGAVE ATTENUATA 'NOVA'	5 Gal.		Riverside. Large native evergreen shrub; good native	tolerance.
STRAWBERRY TREE	ARBUTUS UNEDO	15 Gal.		landscape companion; low maintenance. Evergreen shrub; low maintenance; good native	Good drought tolerance. Moderate drought
SILK NET BUSH	CALOTHAMNUS VILLOSUS	5 Gal.		landscape companion.	tolerance. Moderate drought
SMALL CAPE RUSH	CHONDROPETALUM TECTORUM	1 Gal.		Evergreen rush; low maintenance. No maintenance; good desert or native landscape	tolerance.
RED YUCCA YELLOW POKER PLANT	HESPERALOE PARVIFLORA RHAMNUS CALIFORNICA 'EVE CASE'	1 Gal. 1 Gal.		companion. Large evergreen native shrub; low maintenance. Low maintenance; good native landscape	tolerance. Good drought tolerance.
DEER GRASS	MUHLEBERGIA RIGENS	1 Gal.		companion. Low maintenance; good desert or native	Good drought tolerance. Medium drought
NEW ZEALAND FLAX	PHORMIUM 'PINK STRIPE'	5 Gal.		landscape companion. Low maintenance; good desert or native	tolerance. Medium drought
NEW ZEALAND FLAX	PHORMIUM 'JACK SPRATT'	1 Gal.		landscape companion. Large native evergreen shrub; good native	tolerance.
COFFEEBERRY	RHAMNUS CALIFORNICA 'EVE CASE'	5 Gal.		landscape companion; low maintenance. Low maintenance evergreen shrub; good native	Good drought tolerance.
COAST ROSEMARY	WESTRINGIA FRUTICOSA 'MORNING LIGHT'	5 Gal.		landscape companion. Evergreen short lived groundcover; good for	Good drought tolerance.
PROSTRATE ACACIA	ACACIA REDLOENS 'DESERT CARPET'	1 Gal.	4' O.C.	erosion control. Evergreen groundcover; low maintenance; prefers	Good drought tolerance.
LITTLE SUR MANZANITA	ACRTOSTAPHYLOS EDMUNDSII 'LITTLE SUR'	1 Gal.	2' O.C.	some shade inland.	Good drought tolerance.

GREEN CAPE FUSCHIA		CORREA REFLEXA 'CAPE CARPET'	1 Gal.	6' O.C.	Evergreen groundcover; low maintenance; good native landscape companion. Evergreen shrub; low maintenance; good native	Good drought tolerance.
EAST GRAMPIANS GREVILLEA		GREVILLEA ALPINA 'EAST GRAMPIANS'	1 Gal.	4' O.C.	landscape companion. Evergreen shrub; low maintenance; good native	Good drought tolerance.
COASTAL GEM GREVILLEA		GREVILLEA LANIGERA 'COASTAL GEM'	1 Gal.	3' O.C.	landscape companion. Fast growing evergreen groundcover; good for	Good drought tolerance. Moderate drought
CREEPING MYOPERUM		MYOPERUM PARVIFOLIUM 'PUTAH CREEK'	1 Gal.	18" O.C.	erosion control; can outgrow its planting bed. Low maintenance need to cut back seasonally; can	tolerance.
MEXICAN FEATERH GRASS		NASSELLA TENUISSIMA	1 Gal.	2' O.C.	reseed and become invasive in California. Excellent native evegreen groundcover; slow to	Good drought tolerance.
EMERALD CARPET MANZANITA GROUNDCOVER MIX 1 - 33% OF EACH, G OF 2-5:	ROUPS	ACRTOSTAPHLOS 'Emerald Carpet'	1 Gal.	2' O.C.	establish; low maintenance.	Good drought tolerance.
SHORT LEAVED ALOE GROUNDCOVER MIX 2 - 33% OF EACH, G OF 2-5:	GROUPS	ALOE BREVIFOLIA	1 Gal.	12" O.C.	No maintenance; good desert or native landscape companion.	tolerance.
SHORT LEAVED ALOE SRCX GROUND COVERS:		ALOE BREVIFOLIA	1 Gal.	12" O.C.	No maintenance; good desert or native landscape companion.	Excellent drought tolerance.
N.C.N.		ACACIA REDOLENS 'LOW BOY'	1 Gal.	72" O.C.	Evergreen short lived groundcover; good for erosion control. Fast growing evergreen groundcover; good for	Good drought tolerance. Moderate drought
N.C.N. SRCX SHRUBS:		MYOPORUM PARVIFOLIUM	Flats	12" O.C.	erosion control; can outgrow its planting bed.	tolerance.
DWARF RIVER WATTLE		ACACIA SUBPOROSA 'MINI COG'	5 Gal.		Small evergreen shrub; low maintenance; good native landscape companion.	Good drought tolerance.
KANGAROO PAWS		ANIGOZANTHOS 'BIG RED'	5 Gal.	24" O.C.	Good desert or native landscape companion.	Medium drought tolerance.
MYER ASPARAGUS		ASPARAGUS MYERII	5 Gal.		Low maintenance evergreen perennial.	Moderate drought tolerance. Moderate drought
CAST IRON PLANT		ASPIDISTRA ELATIOR	5 Gal.		Low maintenance; grow in full shade.	tolerance.
ALFONSE KARR BAMBOO		BAMBUSA 'ALFONSE KARR'	24" Box		Clumping bamboo; difficult to remove once established. Fast growing shrub; not tolerant of wind due to	Moderate drought tolerance.
YELLOW BIRD OF PARADISE		CAESALPINIA GILLIESSII	15 Gal.		brittle wood; fairly high maintenance due to pod cleanup, removal of volunteer seedlings.	Good drought tolerance.
N.C.N.		COPROSMA 'MARBLE QUEEN'	5 Gal.		Evergreen shrub; needs part shade in Southern California.	Moderate drought tolerance.
MEXICAN GRASS TREE		DASYLIRION LONGISSIMUM	15 Gal.		Large succulent; low maintenance; good desert and native landscape companion.	Excellent drought tolerance.
					Evergreen grass like perennial; needs to be planted	Moderate drought
VARIEGATED LILY TURF		LIRIOPE VARIEGATA	1 Gal.	24" O.C.	in the shade in Southern California. Low maintenance need to cut back seasonally; can	tolerance.
MEXICAN FEATHER GRASS		NASSELLA TENUIFOLIA	1 Gal.	30" O.C.	reseed and become invasive in California. Low maintenance; good desert or native	Good drought tolerance. Medium drought
HYBRID FLAX		PHORMIUM 'YELLOW WAVES'	15 Gal.		landscape companion. Low maintenance evergreen shrub; good native	tolerance.
WHITE INDIA HAWTHORN		RHAPHIOLEPIS UMBELLATA MINOR	5 Gal.		landscape companion. No maintenance; good desert or native landscape	Good drought tolerance. Excellent drought
N.C.N. SRCX SPECIMEN SUCCULENTS:	AGAVI	YUCCA RECURVIFOLIA VARIEGATA E	5 Gal.		companion.	tolerance.
A MEDIOPICTA ALBA VILMORIANA FILAMENTOSA	AGAVE YUCCA		15 Gal.	SPOTTED / L. ARCHT.	Low maintenance succulents; good desert landscape companion.	Excellent drought tolerance.
SRCX SPECIMEN SUCCULENTS: 'BLUE FLAME' (THORNLESS) AGAVE 'MATEO' (THORNLESS) SRCX VINES:	AGAVI	E	5 Gal.	SPOTTED / L. ARCHT.	Low maintenance succulents; good desert landscape companion.	Excellent drought tolerance.
RED YUCCA		HESPERALOE PARVIFLORA	1 Gal.		No maintenance; good desert or native landscape companion.	tolerance.
BLOOD RED TRUMPET VINE		DISTICTIS BUCCINATORIUS	15 Gal.		Very fast growing evergreen vine; can be high maintenance if need to control growth.	Moderate drought tolerance.

Benchmark-based, Whole-Building Energy Performance Targets for UC Buildings

March 2014

Prepared by:

Rashmi Sahai, Sustainability Specialist Catherine Kniazewycz, Director of Architecture University of California Office of the President sustainability.universityofcalifornia.edu



and

Karl Brown, Deputy Director
California Institute for Energy and Environment
University of California
http://:uc-ciee.org



Disclaimer

This report was prepared as the result of work sponsored by the California Energy Commission. It does not necessarily represent the views of the Energy Commission, its employees or the State of California. The Energy Commission, the State of California, its employees, contractors and subcontractors make no warranty, express or implied, and assume no legal liability for the information in this report; nor does any party represent that the uses of this information will not infringe upon privately owned rights. This report has not been approved or disapproved by the California Energy Commission nor has the California Energy Commission passed upon the accuracy or adequacy of the information in this report.

Acknowledgements

The authors of this report would like to acknowledge the following people for their contribution.

- Ardie Dehghani, Director of Engineering, UC Davis
- John Dilliott, Energy/Utilities Manager, UC San Diego
- John Elliott, Chief Sustainability Officer, Lawrence Berkeley National Laboratory
- Winifred Kwofie, Assistant Director of Strategic Facilities Management, UC San Francisco
- Anna Levitt, Assistant Campus Energy Manager, UC San Diego
- Thomas Lollini, Associate Vice Chancellor, Campus Architect, UC Merced
- Todd Lynch, Principal Planner, UC Los Angeles
- Zuhair Mased, Director, Energy and Sustainability, UC Merced
- Paul Mathew, Staff Scientist & Group Leader, Lawrence Berkeley National Laboratory
- Andrea Mercado, Research Associate, Lawrence Berkeley National Laboratory
- Joshua Morejohn, Manger, Facilities Management, UC Davis
- Maric Munn, Director, Facilities Management, UC San Francisco
- Michelle Perez, Utilities Engineer, UC San Diego
- Jordan Sager, LEED Program Manager, UC Santa Barbara
- Dale Sartor, Staff Engineer, Lawrence Berkeley National Laboratory
- Matthew St.Clair, Sustainability Manger, UC Office of the President
- Stephen Stock, Education Facilities Planner, UC Office of the President

Benchmark-based, Whole-Building Energy Performance Targets for UC Buildings

I. Introduction

The University of California (UC) is a leader in energy efficiency for buildings. The UC Sustainable Practices Policy mandates that all new building projects, other than hospitals, shall be designed, constructed, and commissioned to outperform the California Building Code (CBC) energy-efficiency standards (aka, Title 24) by at least 20%. An energy performance metric based on a percentage beyond code has a number of limitations, however, and UCOP is proposing a complementary method of designing for energy efficiency using benchmark-based, whole-building energy performance targets.

Benchmark-based, whole building energy performance targets are becoming the best practice method for designing energy efficient and zero net energy buildings. National leaders in energy research, such as the National Renewable Energy Laboratory (NREL), are embracing these targets as the most holistic method for designing high-performance buildings. There are several advantages to energy performance targets, including a static baseline (to allow for comparison of buildings over time), the ability to capture energy use and efficiency for all building energy loads (not just the loads regulated by code), and the ability to carry design targets through to operations. In addition, benchmarks available for UC campuses provide targets that address peak demand. For these reasons, the UC campuses are encouraged to adopt whole-building energy performance targets in their building design process, to help maintain UC's leadership in energy efficiency.

UC Merced has been using whole-building energy performance targets since its founding and has had great success in delivering buildings with very energy efficient designs that perform to those design targets in their ongoing operations. The targets are expressed as a percent of a baseline and cover all critical design parameters including annual and peak electric and natural gas use, as well as peak chilled water loads (Brown 2002, Brown et al. 2010). The baselines reflect the 1999 benchmark energy performance of existing building stock for similar buildings, corrected for local climate. They were derived using a regression analysis of actual energy data collected in 1999 at several UC and California State University (CSU) campuses.

In 2011, the system was introduced at UC San Francisco for use in UCSF's new design guidelines at the Mission Bay campus. The 1999 benchmarks were validated by being compared to metered data at existing UCSF buildings. This provided confirmation for using the same method to establish benchmark-based baselines and targets at all UC campuses, which have consequently been developed.

II. The need for benchmark-based whole building energy performance targets

Energy incentive programs, green building rating systems, and energy labeling programs are commonly based on a percentage of energy savings beyond the code maximum energy allowance. The UC Sustainable Practices Policy states that all new building projects are to outperform CBC energy efficiency standards by 20%. This approach has worked reasonably well, but percent savings can become confusing as energy codes become more stringent, especially if policy makers move to set goals for zero net-energy buildings—requiring both deep energy efficiency and renewable energy sources to "net out" the remaining energy use.

A percentage savings beyond code is relative to a moving baseline, as the code is regularly updated per statute and the more stringent standards are enabled by technological advances. California updates to energy efficiency standards in 2001, 2005, and 2008 reduced maximum energy use from between 5% to 8%. For the 2013 update the energy use reduction is predicted to be closer to 20%. Early green buildings claimed savings of 40% or more relative to the CBC at the time that they were built, but many of these buildings would fail to comply with the 2008 and 2013 CBC (Eley et al. 2011).

Whole-building energy performance targets can be based on a static baseline – in this case, the UC benchmarks developed from the 1999 UC/CSU building stock. As new energy efficiency technologies and approaches become available, the target for new buildings can be moved as appropriate to continue making progress toward zero-net energy buildings. The baseline will stay the same, however, allowing for easy evaluation of energy efficiency across buildings and over time.

Percent savings beyond code is also a limited measure because not all of the energy used in buildings is regulated by the CBC. In past code cycles, regulated energy only included heating, cooling, hot water, and interior lighting. Process energy, plug loads, commercial refrigeration, and other non-regulated energy uses were not included because the codes did not establish a baseline for these end uses. In the 2013 code cycle, fan and pump energy and some process loads are included in the energy efficiency standards for the first time. However, much of the building energy use remains unregulated, an estimated 30% averaged across all building types. This creates uncertainty as to whether percent savings includes all building loads or only those regulated, and does not incentivize taking energy efficiency measures on unregulated loads (Eley et al. 2011). Whole-building energy performance targets are based on total energy use and by definition include all building loads.

In addition, whole-building energy performance targets are easier to verify in operations because they are not dependent on the modeling assumptions of a baseline case. Measured verification enables campuses to gain a better understanding of which energy efficiency measures are most effective. It also provides measured evidence for the fact that energy efficiency in new construction projects is oftentimes more cost-effective then later retrofits. Furthermore, whole-building energy performance targets can be carried through to operations and they are much more integrated with UC's climate action policy, as they provide a method of predicting and verifying greenhouse gas emissions of new buildings.

For these reasons, national leaders in energy efficiency, such as NREL, are adopting benchmark-based whole-building energy performance targets as the method of designing for energy efficient buildings. Whole-building energy performance targets are a vital element in continuing UC leadership in building energy efficiency and reaching the University's and climate goals.

III. Development of Benchmarks

The 1999 UC/CSU building energy benchmarks were developed using whole-campus energy use and floor area data from eight UC and CSU campuses (UC Berkeley, UC Davis, UC Irvine, UC Riverside, UC San Diego, UC Santa Barbara, CSU Fresno, CSU Stanislaus), including both annual use/output and peak observed use/output. This utility and space data was combined with corresponding data on the wide range of combinations of district heating and cooling, heating and cooling plants, cogeneration, and thermal energy storage systems to create a consistent data set of energy loads per unit floor area from buildings, independent of campus energy infrastructure.

This building energy load data correlated reasonably well with climate parameters and with density of buildings containing complex space (e.g., labs). Therefore, it was possible to create regressions to project campus loads at UC Merced during the design of the first buildings and infrastructure. It was also possible to do a simple disaggregation of use based on building type (complex vs. non-complex). A further delineation was made between non-complex classroom/office and housing building types, with the former using a disproportionately high amount of electricity and the latter a disproportionately high amount of natural gas.

Though the building-level energy performance benchmarks are independent of the infrastructure serving the buildings, in a campus setting variability remains in the types of loads from the buildings (e.g., natural gas and/or district hot water/steam, chilled water and/or electricity) and the point of measurement (e.g., at the building or at the campus meter). The benchmarks presented here are for the most straightforward combinations of loads from campus buildings, with notes provided on how to adjust the benchmarks for other variations. The following notes apply to use of the benchmarks:

- 1) All heating loads are served by gas (e.g. there is no electric resistance or heat pump heating in the building). Heating loads are typically associated with natural gas use, with boilers in buildings considered equivalent to district hot water systems. For district steam systems, extra losses need to be considered for steam distribution and energy conversion to hot water within the buildings.
- 2) All cooling loads are served by electricity (e.g. there are no absorption or steam-turbine driven chillers in the building). Annual energy use for cooling is typically associated with electricity use, either with chillers in the building or with a district chilled water system. However, if the building is served by a district chilled water system, peak demand is separated out as a chilled water load.

The regression-based projections have been validated by measurement of actual UC Merced energy use at both the campus and building levels, with one exception for which an update was implemented. The campus set progressive whole-energy performance targets, below the 1999 benchmarks developed by the regression. The first 600,000 gsf had a target of 80% of benchmark and the next 600,000 gsf had a target of 65% of benchmark. Buildings are currently being designed with a target of 50% of benchmark. (An exception is maximum thermal load, which has remained at 80% of benchmark.)

The actual measured campus use has tracked just below the level that would be predicted for buildings meeting the targets, on a floor area basis. This is currently around 70% of benchmark with a blend of occupied 80% and 65% target buildings. Actual peak electricity demand is tracking far below predictions. Maximum chilled water load is tracking predictions. The Classroom and Office Building and Science and Engineering I have both been studied in more detail and the as-operated measured performance has been substantially better than the design targets (61-62% of benchmarks reflecting total source energy use, NBI 2009a, NBI 2009b).

The first UC Merced campus buildings might now be considered in some ways better benchmarks than those derived from the existing UC/CSU campus load study. Use is measured at the building level and there is no need to adjust for climate. However, the "sample size" is bigger for the 1999 UC/CSU benchmarks and there is value in maintaining static baseline, as it allows buildings to be compared over time. Moreover, the 1999 UC/CSU benchmarks align in time with the national building energy benchmarks provided by the 2003 CBECS (Commercial Buildings Energy Consumption Survey) database. Therefore, UC Merced has chosen to maintain the original benchmarks as the primary reference for current building design.

V. Expanding whole-building energy performance targets to other UC campuses

The process of developing building energy benchmarks used by UC Merced was adapted for use by UC San Francisco in 2011, and climate-adjusted, benchmark-based performance targets were used in the design-build proposal process for the Mission Bay Faculty Office Building. San Francisco sites are an "extrapolation" in the sense that the climate is slightly milder than any of the campus sites from the original load study. Therefore, an extra validation step was taken, comparing the benchmarks with metered data from UCSF buildings. The analysis suggested that the existing system of benchmarks can be used for UCSF, with adjustments for buildings using steam (e.g., Parnassus campus and Mt. Zion facilities), along with adjustments for sub-metering of electricity use at low distribution voltages at the building (the original system of benchmarks is based on master-metering at the campus level). Please see Appendix I for further details.

Based on the success of developing appropriate building energy use benchmarks at UC Merced and UC San Francisco and designing to whole-building energy performance targets at UC Merced, UCOP has applied the same method to develop benchmark-based baselines and targets for all UC campuses. Further details on this method are provided in Appendix II. Table 1 presents the baselines and Table 2 presents the targets equivalent to those currently being used at UC Merced (50% of benchmark, except for maximum thermal load at 80% of benchmark).

Table 1: UC Building 1999 Energy Benchmarks by Campus - Baseline for Targets

lable	1: UC Building 1999	P Energy Benchmarks by C	_	iine for Targets	
	Annual Electricity	Maximum Power	Max. Chilled Water	Annual Thermal	Max. Thermal
	kWh/gsf/yr	W/gsf	tons/kgsf	therms/gsf/yr	therms/hr/kgsf
	Includes prorated part of plant use and site lighting	Includes prorated part of small peak (pumping) load at plant	Load on plant	Includes prorated part of plant use	Includes prorated part of plant use
Academic/Administrative I		piant			
Berkeley	11.2	3.1	N/A	0.21	0.12
Davis	13.3	3.3	2.5	0.20	0.12
Irvine	13.0	2.6	1.93	0.16	0.12
Los Angeles	12.3	2.3	1.72	0.17	0.12
Merced	14.3	3.5	2.6	0.20	0.12
Riverside	13.9	3.3	2.5	0.20	0.12
	12.2	2.2	1.66	0.16	0.12
San Diego	11.1	2.0	1.51	0.16	0.12
San Francisco Parnassus San Francisco Mission Bay	11.1	3.1	N/A	0.21	0.12
	11.4		1.66		
Santa Barbara Santa Cruz	11.5	2.2 3.2	1.66 N/A	0.19	0.12
	11.1	3.2	IN/A	0.23	0.12
Housing Non-complex	7.8	2.1	NI/A	0.20	0.10
Berkeley	9.3	2.1	N/A	0.30	0.18
Davis			1.75	0.29	0.18
Irvine	9.1	1.79	1.35	0.23	0.18
Los Angeles	8.6	1.60	1.20	0.24	0.18
Merced	10.0	2.4	1.82	0.28	0.18
Riverside	9.7	2.3	1.75	0.26	0.18
San Diego	8.6	1.55	1.17	0.23	0.18
San Francisco Parnassus	7.8	1.40	1.06	0.30	0.18
San Francisco Mission Bay	8.0	2.1	N/A	0.30	0.18
Santa Barbara	8.0	1.55	1.17	0.28	0.18
Santa Cruz	7.8	2.2	N/A	0.32	0.18
Lab/Complex Space	26	7.6	NI/A	1.02	0.42
Berkeley	36	7.6	N/A	1.83	0.43
Davis	38	6.3	4.7	1.83	0.43
Irvine	38	5.6	4.2	1.78	0.43
Los Angeles	37	5.4	4.1	1.79	0.43
Merced	39	6.4	4.8	1.82	0.43
Riverside	38	6.3	4.7	1.80	0.43
San Diego	37	5.3	4.0	1.78	0.43
San Francisco Parnassus	36	5.2	3.9	1.84	0.43
San Francisco Mission Bay	36	7.6	N/A	1.84	0.43
Santa Barbara	36	5.3	4.0	1.81	0.43
Santa Cruz	36	7.6	N/A	1.85	0.43
Building-Specific Adjustme Unique situations such as	Annual chilled	For campuses with district	Only	These values are direct	ly applicable to
Santa Cruz's district	water use is	chilled water (e.g. Davis), if a	applicable if	buildings with boilers in	
condenser water system and	typically associated	specific building has a chiller	building	connected to (low-loss)	-
Berkeley's interconnected	with electricity use	instead, multiply value by	supplied by	systems (non-steam). T	
building chillers and	and is included in	(1/0.7) or 1.43 to account for	district chilled	applicable to buildings	connected to district
absorption chillers may	this value.	the chiller's electric load.	water system.	steam systems if addition	
require custom adjustments.	These values may be s	slightly lower than previously		characteristic of steam	
	published values (i.e.	for UC Merced) because they		accounted for where ap example, 50% extra use	
		ilding meter (480 V) instead of		trap/exchanger losses v	
		(12 kV). To reflect load on		plus 50% extra use from	
	for distribution and tr	se value by 1.05 (to account ansformation losses).		losses in distribution sy commonly observed.	• • •

Table 2: UC Building Energy-Performance Targets by Campus

	Table 2: UC Bui	lding Energy-Performance		mpus	
	Annual Electricity	Maximum Power	Max. Chilled Water	Annual Thermal	Max. Thermal
	kWh/gsf/yr	W/gsf	tons/kgsf	therms/gsf/yr	therms/yr/kgsf
	Includes prorated part of plant use and site lighting	Includes prorated part of small peak (pumping) load at plant	Load on plant	Includes prorated part of plant use	Includes prorated part of plant use
Academic/Administrative N	Non-complex Space				
Berkeley	5.6	1.53	N/A	0.10	0.10
Davis	6.7	1.66	1.25	0.10	0.10
Irvine	6.5	1.28	0.96	0.081	0.10
Los Angeles	6.2	1.14	0.86	0.085	0.10
Merced	7.2	1.73	1.30	0.10	0.10
Riverside	6.9	1.66	1.25	0.090	0.10
San Diego	6.1	1.11	0.83	0.080	0.10
San Francisco Parnassus	5.6	1.00	0.75	0.11	0.10
San Francisco Mission Bay	5.7	1.53	N/A	0.11	0.10
Santa Barbara	5.7	1.11	0.83	0.10	0.10
Santa Cruz	5.6	1.58	N/A	0.11	0.10
Housing Non-complex	3.0	1.50	14,71	0.11	0.10
Berkeley	3.9	1.07	N/A	0.15	0.14
Davis	4.7	1.16	0.88	0.15	0.14
Irvine	4.5	0.90	0.67	0.12	0.14
Los Angeles	4.3	0.80	0.60	0.12	0.14
Merced	5.0	1.21	0.91	0.14	0.14
Riverside	4.9	1.16	0.88	0.13	0.14
San Diego	4.3	0.77	0.58	0.11	0.14
San Francisco Parnassus	3.9	0.70	0.53	0.15	0.14
San Francisco Mission Bay	4.0	1.07	N/A	0.15	0.14
Santa Barbara	4.0	0.77	0.58	0.14	0.14
Santa Cruz	3.9	1.11	0.38 N/A	0.14	0.14
Lab/Complex Space	3.5	1.11	IN/A	0.10	0.14
Berkeley	18.0	3.8	N/A	0.92	0.34
Davis	18.9	3.1	2.4	0.91	0.34
Irvine	18.8	2.8	2.1	0.89	0.34
Los Angeles	18.5	2.7	2.0	0.89	0.34
Merced	19.3	3.2	2.4	0.91	0.34
Riverside	19.1	3.1	2.4	0.90	0.34
San Diego	18.4	2.7	2.4	0.90	0.34
San Francisco Parnassus	18.0	2.6	1.94	0.92	0.34
San Francisco Mission Bay	18.1	3.8	N/A	0.92	0.34
Santa Barbara	18.1	2.7	2.0	0.91	0.34
Santa Cruz	18.0	3.8	N/A	0.93	0.34
Building-Specific Adjustme		3.0	IN/A	0.93	0.34
Unique situations such as	Annual chilled	For campuses with district	Only	These values are direct	ly applicable to
Santa Cruz's district	water use is	chilled water (e.g. Davis), if a	applicable if	buildings with boilers in	
condenser water system and	typically associated	specific building has a chiller	building	connected to (low-loss)	district hot water
Berkeley's interconnected	with electricity use	instead, multiply value by	supplied by	systems (non-steam). T	·
building chillers and	and is included in	(1/0.7) or 1.43 to account for	district chilled	applicable to buildings	
absorption chillers may	this value.	the chiller's electric load.	water system.	steam systems if addition	
require custom adjustments.	These values may be s	slightly lower than previously		characteristic of steam accounted for where a	
		for UC Merced) because they		example, 50% extra use	
		ilding meter (480 V) instead of		trap/exchanger losses	
	-	(12 kV). To reflect load on se value by 1.05 (to account		plus 50% extra use fron	n trap/leakage
	for distribution and tr			losses in distribution sy	stems has been
	157 distribution and th	a.i.s. o i i i a i a i a i a i a i a i a i a i		commonly observed.	

VI. References

Brown, K., A. Daly, J. Elliott, C. Higgins, and J. Granderson. 2010. "Hitting the Whole Target: Setting and Achieving Goals for Deep Efficiency Buildings." *Proceedings of the 2010 ACEEE Summer Study of Energy Efficiency in Buildings.* 3:28-39. Washington D.C.: American Council for an Energy-Efficient Economy.

Brown, K. 2002. "Setting Enhanced Performance Targets for a New University Campus: Benchmarks vs. Energy Standards as a Reference?" *Proceedings of the 2002 ACEEE Summer Study of Energy Efficiency in Buildings.* 4:29-40. Washington, D.C.: American Council for an Energy-Efficient Economy.

Eley, C., Goodrich, K., Arent, J., Higa, R., Rauss, D. 2011. "Rethinking Percent Savings—The Problem with Percent Savings and zEPI: The New Scale for a Net Zero Energy Future." *American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.* **177** (2): 787-800.

NBI. 2009a. "Measured Performance Case Study: Classroom and Office Building, UC Merced." Available online: http://uc-ciee.org/buildings/ucmerced.html or http://www.newbuildings.org/document-library. New Buildings Institute.

NBI. 2009b. "Measured Performance Case Study: Science and Engineering Building I, UC Merced." Available online: http://uc-ciee.org/buildings/ucmerced.html or http://www.newbuildings.org/document-library. New Buildings Institute.

Appendix I: Analysis of application of 1999 UC/CSU Benchmarks to UC San Francisco

Accounting for steam system losses at some sites (Parnassus and Mt. Zion) and with one significant outlier (Byers Hall), UCSF energy use patterns are consistent with the 1999 UC/CSU benchmark-based regression data used to develop the energy use benchmarks and targets for UC Merced.

A. Buildings Served By Steam Systems

Significantly higher steam (equivalent natural gas) use on the Parnassus campus and for the Mt. Zion facility can be explained by typical in-building losses associated with the district steam system at those sites. Our study of other California campuses indicates that losses from district steam systems roughly double the equivalent natural gas use compared with any other type of infrastructure (e.g., in-building boilers or hot water distribution). One plausible explanation for the higher gas use at the Parnassus and Mt. Zion sites is that roughly half of the typical steam losses are between the plant and the building, with the other half being on the building side of the steam metering and observed in the data.

Benchmarks and targets for equivalent natural gas use should be adjusted upward by 50% to account for steam distribution losses inside buildings served by district steam systems at UCSF (e.g., Parnassus Campus buildings). However, this will have no net effect on the end-use system design goals as design teams should concurrently be instructed to add 50% to their design analysis to account for the potential losses. Of course, design teams should also be encouraged to design for minimum losses on the building side of the steam meter, targeting a level well below benchmark.

B. Accommodation of Large Process Systems

Byers Hall is a significant outlier for electricity use at roughly 160% of the climate-adjusted benchmark. This is explained by the presence of large Magnetic Resonance Imaging units and associated cooling systems. (It should also be noted that the adjacent Byers Hall, Genentech Hall and Community Center are partially conjoined with some HVAC services supplied by common systems.) In a situation where an unusually large process system will be included or added to a building (e.g., MRI, data center, clean room) it is recommended that energy use analysis of such a system be done separately, and the benchmark-based targets are applied to the balance of the building.

C. Adjustment for Electric Metering at the Building

UCSF electricity use data was obtained as metered at the building at distribution voltage (480V). The 1999 UC/CSU Benchmarks were developed to correspond to the portion of campus metered electricity use attributable to the building, inclusive of distribution and transformation losses between the campus meter and the building. This caused some minor confusion in the UC Merced design analysis and subsequent performance measurement process. In order to avoid that in the application of future benchmarks, a 5% decrease in the climate adjusted benchmarks can be applied for direct application to the design process. It should also be noted that the benchmarks are inclusive of all unattached site lighting allocated to the building targets. If a significant portion of unattached site is not associated with the building designs, then the benchmarks and targets will be slightly conservative on the high side.

D. Acute Care Facilities and Complex (Wet Lab) Building Benchmarks

The adjustments already implemented and mentioned above are necessary to adapt to UCSF conditions. UCSF acute care facilities have roughly the same energy footprint as the other complex (wet laboratory) buildings. If the above adjustment is made for buildings served by district steam systems, it appears the benchmarks and targets for buildings containing wet laboratory space might be useful for acute care facilities. However, because of the limited data set so far examined, medical centers are encouraged to supplement benchmarks with their own data.

Appendix 2: Method used to calculate whole-building energy use benchmarks at UC campuses

1. Climate Data

Identify historic climate data for campus site using same references as were used for original derivation of benchmarks. See "University of California, Merced Campus Energy Planning Module I: Preliminary Load Projections. Working Draft. 2000" for the original references. The following independent climate variables are included

- Cooling Design Temperature (deg F, 0.4% design temperature for 35 hours of exceedence)
- Cooling Degree-Days base 65 deg F
- Heating Degree Days base 65 deg F

2. Apply Regression Formula

Set lab building fraction to 0% for non-lab (non-complex) building benchmarks.

Set lab building fraction to 100% for lab (complex) building benchmarks.

Obtain campus-level benchmarks for:

- Maximum power (W/gsf, chillers in buildings)
- Annual Electricity Use (kWh/gsf/yr)
- Maximum Thermal (therms/hr/kgsf)
- Annual Thermal (Therms/gsf/yr)

3. Apply Concurrence Fraction(s) to Account for Load Diversity at Building Level

For electric and thermal maximum benchmarks, convert from campus level to building level by applying concurrence fraction(s) to account for load diversity. A 90% concurrence factor was originally assumed for maximum electric (including both electricity and chilled water for a district cooling campus) and thermal (natural gas) load. Based on measurements of chilled water diversity at UC Merced, the concurrence factor has been updated to 84% for all maximum loads at the building level.

4. Apply Adjustment for Increasing Summer Occupancy

The benchmarks were developed primarily from quarter-term campuses (except Berkeley) with the typical partial summer occupancy. Early UC Merced planners insisted that UC Merced would almost immediately become the first (non-medical center) campus to operate a summer quarter with equivalent campus population to the other three quarters. Therefore, an adjustment was made to the benchmarks for this increase in summer use over the benchmark campuses. Ten percent is added to the maximum power benchmark and 2% is added to the annual electricity use benchmark.

Soon thereafter, the 1st Chancellor took a decision to go to the semester system, starting in August and finishing the first semester before the winter holidays. This shift, along with the hot summer weather, decreased momentum toward full year-round operation.

However, the adjustments to the benchmarks were maintained and are carried through to the present. Electric and chilled water loads for the August start are almost as high as the slightly hotter part of the summer. The 2% adjustment to the electricity benchmark is considered de minimis. Taking away these adjustments would have seemed like a take-back to the campuses designers challenged by the benchmark-derived targets.

The next application of the benchmarks at UCSF was for a medical campus that has something approaching year-round operation. So the adjustment was maintained. The adjustment has been maintained for other campuses for simplicity.

5. Split Between Peak Electricity and Chilled Water for a District Cooling Campus

For a campus with district cooling (and in some cases thermal energy storage (TES)) the peak electric benchmark must be split at the building level between the electricity peak and the maximum chilled water demand. This is the fraction of the electric peak that is shiftable off-peak with TES.

The split at the benchmark campuses with district cooling appeared to be ~25% chilled water maximum and 75% electricity peak from fans, pumps, lights, and plug load—based on a generic chiller performance metric of 0.6kW/ton. Based on a pattern of easily meeting electricity peak targets and relative difficulty meeting chilled water peak targets at UC Merced, the split has been adjusted to 30% chilled water maximum and 70% electric peak.

6. <u>Distinction between Academic Buildings and Housing</u>

For non-laboratory buildings, to account for higher electricity usage in "commercial"-type classroom, office, and library buildings, as well as higher gas usage in "residential"- type buildings. Electricity benchmarks for housing are set at 70% of the level of non-residential" buildings by multiplying the basic non-laboratory benchmark by the square root of the 70% factor and electricity benchmarks for non-residential buildings dividing the basic non-laboratory benchmark by the square root of the 70%.

The inverse process is used to account for higher gas usage in residential buildings than in "commercial" buildings.

7. Adjusting for Building Metering

The benchmarks are derived from data collected at the campus meter at approximately 12 kV. There are distribution and transformation losses between the campus meter and building meter, which is at approximately 480 V. To reflect these losses, the benchmarks are reduced by 5%.

8. Floor Area Definition

The UC floor area definition used in development of the benchmarks is REVOGSF50.

9. Building Classifications

At UC Merced, the following building types were classified as having "complex"-level benchmarks, though they may not be classified as containing "complex" space in the UC space database:

- Telecom
- Plant (as a Building)
- Food Service
- Rec Center (Natural Gas Benchmark/Target)