



1520 W. Cameron Ave., Suite 103 ♦ West Covina, CA 91790
Ph. 626-962-4436 ♦ Fx. 626-962-4437 ♦ www.globalenvirotraining.com

Combustion By-Product / Testing / Analysis

Jobsite:

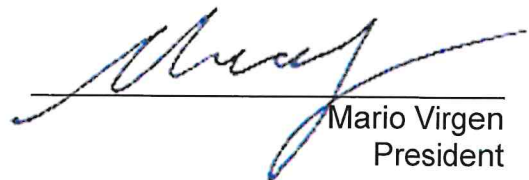
**CALIFORNIA STATE UNIVERSITY LOS ANGELES (CSULA)
LA KRETZ HALL
5151 STATE UNIVERSITY DR.
LOS ANGELES, CA 90032**

Prepared For:

MS. BARBARA L. QUEEN
CALIFORNIA STATE UNIVERSITY LOS ANGELES (CSULA)
5151 STATE UNIVERSITY DR.
LOS ANGELES, CA 90032

January 16, 2025

PROJECT No. **E225-004**



Mario Virgen
President

TABLE OF CONTENTS

SECTION

1.0	EXECUTIVE SUMMARY	I
1.1	General Information	
1.2	Tasks	
2.0	METHODOLOGY.....	II
2.1	Sampling	
2.2	Sampling Procedures and Analysis	
2.3	Report Format	
3.0	FINDINGS AND RECOMMENDATIONS.....	III
3.1	General Summary	
3.2	Recommendations	
4.0	WARRANTY	IV

APPENDICES

- A. Sampling Log
 - B. Analytical Reports
 - C. Sampling Scheme
-



Barbara L. Queen
Planning, Design & Construction
California State University, Los Angeles (CSULA)
5151 University Dr.
Los Angeles, CA 90032

Re: Combustion By-Product Testing
California State University, Los Angeles (CSULA)
LA Kretz Hall
5151 University Dr.
Los Angeles, CA 90032

GETC Project No. E225-004

Dear Ms. Queen,

Global Environmental Training & Consulting (GETC) performed Ambient Air Testing for Combustion By-Product (Char, Soot, & Ash) at the above referenced property. GETC has reviewed the results from the accredited laboratory and based on the samples taken on January 13, 2025, throughout LA Kretz Hall, results have concluded that all areas identified are below the outside background sample for Combustion By-Products.

Thank you for choosing GETC as the consultant for this project. If you have any questions, or if we can be of service again in the future, please do not hesitate to contact our office at (626) 962-4436.

Respectfully submitted,

Global Environmental Training & Consulting, Inc.
Mario Virgen, I.H.
President

Enclosures

1.0 EXECUTIVE SUMMARY

1.1 GENERAL INFORMATION

Global Environmental Training and Consulting, Inc. (GETC) was retained by the California State University, Los Angeles (CSULA) to conduct Ambient Air Quality Testing for Combustion By-Products at LA Kretz Hall located at 5151 University Dr., in Los Angeles, California.

Carbon Black is a fine-grained solid residue that results from incomplete combustion of hydrocarbons. This testing is designed for analysis of fire residues for presence of analytes of interest (Char, Black Carbon/Soot, & Ash). The results of this test offer the client valuable information related to the extent of contamination produced by a fire from a residence or wildfire. These results can be used for cleaning assessment.

The sample collection was performed by GETC Industrial Hygienist Mr. Chris Virgen.

1.2 TASKS

GETC Performed Ambient Air Quality Testing for Combustion By-Product that included the following tasks:

- ◆ Collect Air Samples using Allergenco Cassettes within LA Kretz Hall (13 Total) – For Combustion By-Product Analysis.
 - ◆ Air Samples were collected following the ASTM D6602-13 Standards, “Standard Practices for sampling and testing of possible Carbon Black Fugitive Emissions or Environmental Particulates.”
-

SAMPLING TABLE COMBUSTION BY-PRODUCT (CHAR, SOOT, & ASH)

LA KRETZ HALL					
SAMPLE NO.	LOCATION	CHAR PARTICULATES	SOOT PARTICULATES	ASH	TOTAL
01	OUTSIDE (CONTROL)	30,253	380	540	31,173
02	LOBBY H-1A	187	20	53	260
03	HALLWAY NEAR 132	273	13	27	313
04	HALLWAY NEAR 150	253	27	33	313
05	HALLWAY NEAR 160	760	33	73	866
06	HALLWAY NEAR ROOM 275	187	13	47	247
07	HALLWAY NEAR 0227A	227	7	40	274
08	HALLWAY NEAR 0234	247	13	60	320
09	HALLWAY NEAR 0263	727	20	120	867
10	HALLWAY NEAR 0327	80	7	13	100
11	HALLWAY NEAR 0332	60	0	20	80
12	LOBBY H-3A	113	7	7	127
13	HALLWAY NEAR 0392	220	13	27	260

2.0 METHODOLOGY

This section includes the description of the methodologies used to perform the Combustion By-Product Sampling and Analysis. These methodologies include air sampling analysis.

2.1 AIR SAMPLING

- Collect and submit for analysis samples for Combustion By-Product from within LA Kretz Hall.

2.2 SAMPLING PROCEDURES AND ANALYSIS

Sampling Procedure

The inspector collected Thirteen (13) air samples from LA Kretz Hall. Methods & Equipment:

- ♦ Polarized Light Microscopy (PLM)
- ♦ epi-Reflected Light Microscopy (RLM)

The samples were numbered and shipped to a laboratory accredited under the American Industrial Hygiene Association (AIHA) and Environmental Proficiency Analytical Testing Program (EPAT).

Chain-of-Custody Procedures

Chain-of-Custody documents possession of the samples from the time they are collected until they have been analyzed and are stored. Custody documentation must be followed whenever materials are received, collected, transferred, stored, analyzed, or destroyed.

The original Chain-of-Custody is to accompany the materials at all times. Custody documentation will begin at the time a sample is collected. Each transferor should retain a copy of the Chain-of-Custody record.

Laboratory Quality Control Program

Pasteur Laboratory maintains an in-house quality control program. This program involves precision and accuracy controls, use of standard bulk reference materials, maintenance of national and state accreditation, participation in external and internal proficiency testing programs, and confirmation of analyst experience and qualification in compliance with specific internal training and competency requirements.

2.3 REPORT FORMAT

This report has been organized in a manner that presents the data in several forms to best suit the needs of the property. The "Executive Summary" provides a description of the facility and analytical results for each area tested. The Air Sampling Log, Appendix A, contains detailed information on the locations of areas sampled. The "Analytical Reports", Appendix B, is a listing of samples taken and their Combustion By-Product Content.

3.0 FINDINGS AND RECOMMENDATIONS

3.1 GENERAL SUMMARY

- ◆ Sampling Logs & COC in Appendix A.
- ◆ Complete lab analyses for Combustion By-Products are given in Appendix B.
- ◆ Sampling Scheme is given in Appendix C.

3.2 RECOMMENDATIONS

Since all indoor air samples are below the Outside (Control) sample, Global Environmental Training & Consulting, Inc. (GETC) has no recommendations at this time.

4.0 WARRANTY

The field and laboratory results reported herein are considered sufficient in detail and scope to determine the presence of airborne Combustion By-Product Compounds in LA Kretz Hall. Global Environmental Training & Consulting, Inc. warrants that the findings contained herein have been prepared in general accordance with accepted professional practices at the time of its preparation as applied by similar professionals in the community. Changes in the state of the art or in applicable regulations cannot be anticipated and have not been addressed in the report.

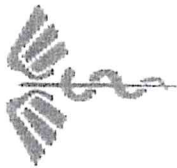
The air sampling and analytical methods have been used to provide the client with information regarding the presence of Combustion By-Product Compounds existing in the LA Kretz Hall at the time of sampling. Test results are valid only for the areas tested. There is a distinct possibility that conditions may exist which could not be identified within the scope of the study of which were not apparent during the site visit.

No other warranties are implied or expressed.

APPENDIX A

AIR SAMPLING LOG

Chain of Custody / Microbiology Sample Log



Pasteur Laboratory
 158 N. Glendora Ave., Suite S (2nd floor)
 Glendora, CA 91741
 Tel: (626) 963-8686
 E-mail: microbiology99@aol.com

NOTES:

CONTACT INFORMATION

Company: Global Environmental Training & Consulting
 Address: 1520 W. Cameron Ave., Suite 103, West Covina, CA
 Contact: Mario Virgen / Miguel Virgen
 Fax results Y / N Fax & Invoice to: 626-962-4437
 Phone: 626-962-4436 Email results Y / N staff@globalenvirotraining.com

PROJECT INFORMATION

Project Name: CSULA - LA Kretz Hall
 Project Number: E225-004
 Sampling Date: January 13, 2025
 TURN AROUND TIME - (TAT)
 ND - 24 Hour (+50%) Rushes received after 2pm or on weekends, will be considered received the next business day.
 SD - Same Day (+75%)
 WH - Weekend/Holiday (+100%)

Sample ID	Sample Location	Sample Type	TAT (Above)	Flow Rate	Time	Total Volume
01	Outside / Control					
02	Lobby H-1A					
03	Hallway near 132					
04	Hallway near 150					
05	Hallway near 160					
06	Hallway near room 275					
07	Hallway near 0227A					
08	Hallway near 0234					
09	Hallway near 0263					
10	Hallway near 0327					
11	Hallway near 0332					
12	Lobby H-3A					
13	Hallway near 0392					

SAMPLE TYPE CODES

AP - Andersen Plate CP - Contact Plate
 Z - Zefon Air-O-Cell All - AllergencoD
 T - Tape S - Swab BL - Bulk
 M2 - Allegro M2 - Multimold Cassette

REQUESTED SERVICES (CHECK BOXES)					
Non - Culturable		Culturable			
Spore Trap	Spore	Tape	Anderson, Swab, Water, Bulk, Dust, Soil,	Contact Plate	
	Trap	Swab			
		Bulk			
	Fungi - Spore Trap Analysis		Fungi - Direct Microscopic Exam	Fungi - Standard Quant. Analysis	E. coli / Coliform Screen (MUG)
	Fungi & Biological Particles				Bacteria - Quantitative Analysis

Ash, Scot & Char

APPENDIX B

ANALYTICAL REPORTS

(Aerosol Samples)



158 N. Glendora Ave., Suite S

Glendora, CA 91741

Tel: (626) 963-8686

E-mail: microbiology99@aol.com

Lab Reference No.:	00028-25-0043
Date Collected:	January 13, 2024
Date Received:	January 13, 2024
Date Analyzed:	January 13, 2024
Sample(s) analyzed:	13

*Background debris is an indication of amounts of biological and non-biological particulate matters present on the sample and is characterized as *very light, light, moderate, heavy* or *very heavy*. *Very heavy* background debris may obscure particulate matters, reducing visibility during analysis. Consequently, counts from very heavy background debris should be considered minimal. *The laboratory and its personnel shall not be held liable for any misinformation provided to us by the client regarding these samples or for any misuse or interpretation of information supplied by us. This report relates only to samples submitted and analyzed*

Sample(s) were analyzed by: P. Chakravarty, Ph.D., Sr. Environmental Microbiologist

P. Chakravarty

Page 1 of 1

1/14/2025



158 N. Glendora Ave., Suite S

Glendora, CA 91741

Tel: (626) 963-8686

E-mail: microbiology99@aol.com

Mario Virgen/Miguel Virgen
Global Environmental Training & Consulting
1520 W. Cameron Ave., Suite 103, West Covina, CA 91790
Tel: 626-962-4436 Fax: 626-962-4437
E-mail: staff@globalenvirotraining.com
Client's Project: CSULA - LA Kretz Hall E 225-004

Lab Reference No.: 00028-25-0043

Date Collected: January 13, 2024

Date Received: January 13, 2024

Date Analyzed: January 13, 2024

Sample(s) analyzed: 13

Laboratory Sample ID	12386			12387			12388			12389		
Client Sample ID	05			06			07			08		
Location	Hallway near 160			Hallway near Rm 275			Hallway near 0227A			Hallway near 0234		
Volume (L)	150			150			150			150		
Background Debris*	Moderate			Light			Light			Light		
Sample Description	AllergencoD			AllergencoD			AllergencoD			AllergencoD		
	Raw cts	No. /m ³	%	Raw ct	No. /m ³	%	Raw cts	No. /m ³	%	Raw cts	No. /m ³	%
Char particulate:	114	760	87.76	28	187	75.71	34	227	82.85	37	247	77.19
Soot particulate	5	33	3.81	2	13	5.26	1	7	2.55	2	13	4.06
Ash:	11	73	8.43	7	47	19.03	6	40	14.60	9	60	18.75
Total numbers / m³	866			247			274			320		
Comments												
Limit of Detection	7			7			7			7		

*Background debris is an indication of amounts of biological and non-biological particulate matters present on the sample and is characterized as *very light, light, moderate, heavy* or *very heavy*. *Very heavy* background debris may obscure particulate matters, reducing visibility during analysis. Consequently, counts from *very heavy* background debris should be considered minimal. *The laboratory and its personnel shall not be held liable for any misinformation provided to us by the client regarding these samples or for any misuse or interpretation of information supplied by us. This report relates only to samples & P. Chakraverty*

1/14/2025



158 N. Glendora Ave., Suite S

Glendora, CA 91741

Tel: (626) 963-8686

E-mail: microbiology99@aol.com

Mario Virgen/Miguel Virgen
Global Environmental Training & Consulting
1520 W. Cameron Ave., Suite 103, West Covina, CA 91790
Tel: 626-962-4436 Fax: 626-962-4437
E-mail: staff@globalenvirotraining.com
Client's Project: CSULA - LA Kretz Hall E 225-004

Lab Reference No.: 00028-25-0043

Date Collected: January 13, 2024

Date Received: January 13, 2024

Date Analyzed: January 13, 2024

Sample(s) analyzed: 13

Laboratory Sample ID	12390			12391			12392			12393		
Client Sample ID	09			10			11			12		
Location	Hallway near 0263			Hallway near 0327			Hallway near 0332			Lobby H-3A		
Volume (L)	150			150			150			150		
Background Debris*	Moderate			Light			Light			Light		
Sample Description	AllergencoD			AllergencoD			AllergencoD			AllergencoD		
	Raw cts	No. /m ³	%	Raw ct	No. /m ³	%	Raw cts	No. /m ³	%	Raw cts	No. /m ³	%
Char particulate:	109	727	83.85	12	80	80.00	9	60	75.00	17	113	88.98
Soot particulate	3	20	2.31	1	7	7.00	0	0	0.00	1	7	5.51
Ash:	18	120	13.84	2	13	13.00	3	20	25.00	1	7	5.51
Total numbers / m³	867			100			80			127		
Comments												
Limit of Detection	7			7			7			7		

*Background debris is an indication of amounts of biological and non-biological particulate matters present on the sample and is characterized as *very light, light, moderate, heavy* or *very heavy*. *Very heavy* background debris may obscure particulate matters, reducing visibility during analysis. Consequently, counts from *very heavy* background debris should be considered minimal. *The laboratory and its personnel shall not be held liable for any misinformation provided to us by the client regarding these samples or for any misuse or interpretation of information supplied by us. This report relates only to samples 18-01-01 to 18-01-05.*

1/14/2025



158 N. Glendora Ave., Suite S

Glendora, CA 91741

Tel: (626) 963-8686

E-mail: microbiology99@aol.com

Mario Virgen/Miguel Virgen
Global Environmental Training & Consulting
1520 W. Cameron Ave., Suite 103, West Covina, CA 91790
Tel: 626-962-4436 Fax: 626-962-4437
E-mail: staff@globalenvirotraining.com
Client's Project: CSULA - LA Kretz Hall E 225-004

Lab Reference No.:	00028-25-0043
Date Collected:	January 13, 2024
Date Received:	January 13, 2024
Date Analyzed:	January 13, 2024
Sample(s) analyzed:	13

[illegible]

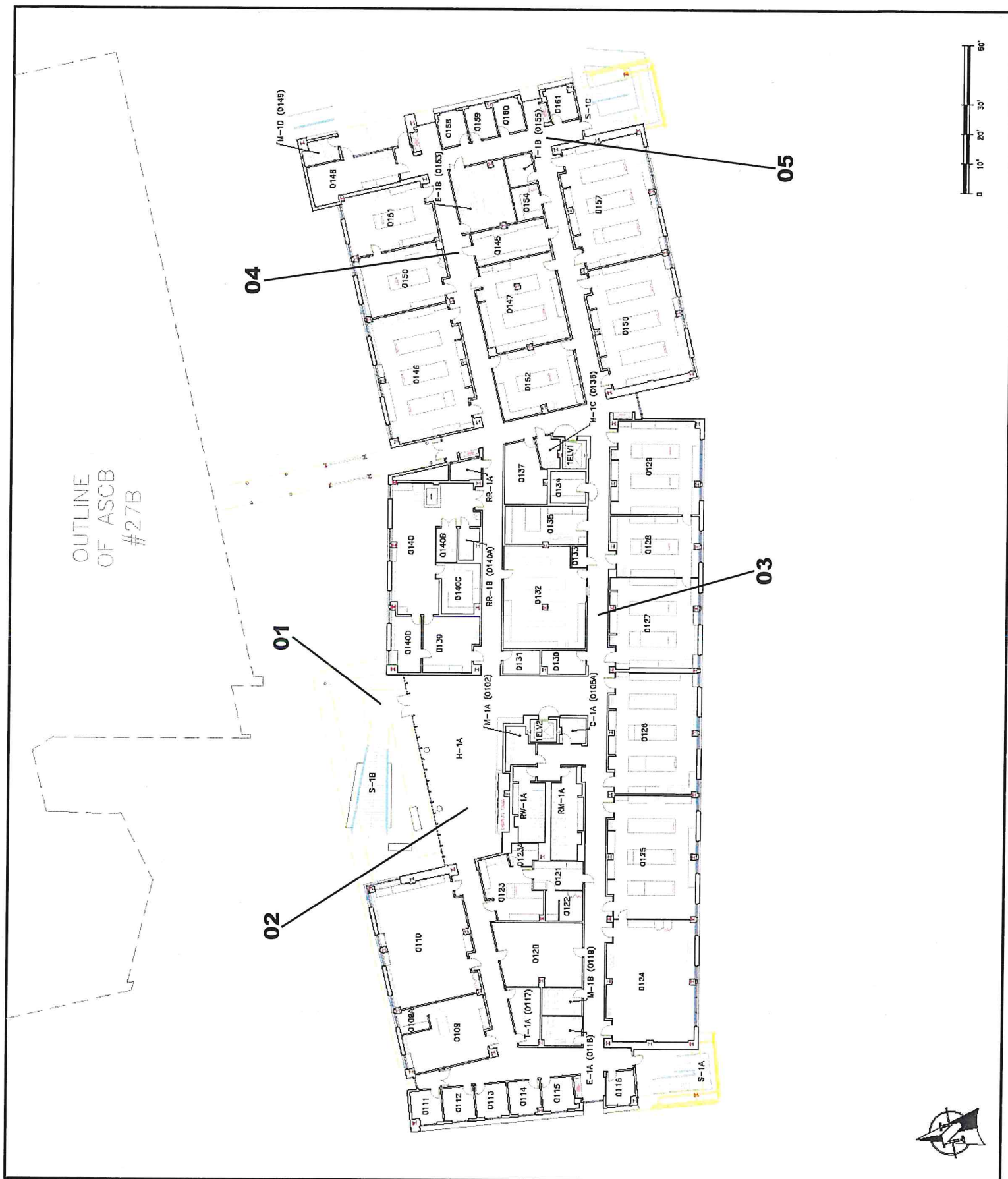
*Background debris is an indication of amounts of biological and non-biological particulate matters present on the sample and is characterized as *very light, light, moderate, heavy* or *very heavy*. *Very heavy* background debris may obscure particulate matters, reducing visibility during analysis. Consequently, counts from *very heavy* background debris should be considered minimal. *The laboratory and its personnel shall not be held liable for any misinformation provided to us by the client regarding these samples or for any misuse or interpretation of information supplied by us. This report relates only to samples s.p. chakraverty*

APPENDIX C

SAMPLING SCHEME



CAL STATE LA



27A

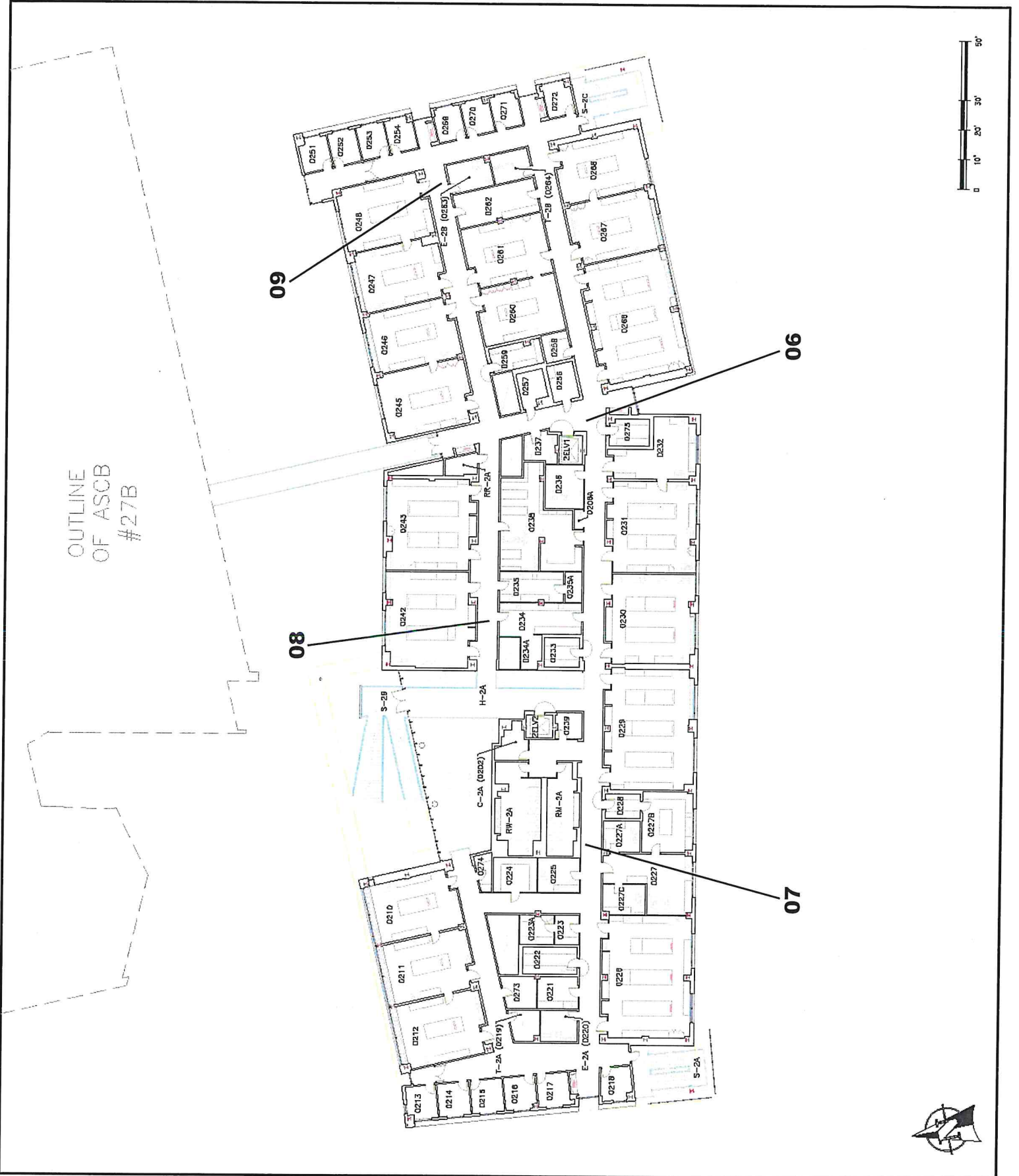
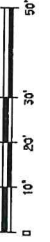
BLDG

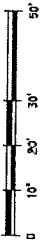
ASCL - LA KRETZ HALL
SECOND FLOOR

LAST UPDATED: 12-8-16

PLANNING, DESIGN & CONSTRUCTION

CAL STATE LA





27A

BLDG

ASCL - LA KRETZ HALL
THIRD FLOOR

LAST UPDATED: 12-8-16

CAL STATE LA



PLANNING, DESIGN & CONSTRUCTION

