



**FORM 1**  
**CERTIFICATE OF SEISMIC PERFORMANCE LEVEL**

- UC-Designed & Constructed Facility**  
 **Campus-Acquired or Leased Facility**

**BUILDING DATA**

Building Name: [Gifford Golf Building](#)  
Address: [336 Charles E Young Dr N, Los Angeles CA 90024](#)  
Site location coordinates: Latitude [34.0747297](#) Longitudinal [-118.4444635](#)

**UCOP SEISMIC PERFORMANCE LEVEL (OR "RATING"): [IV](#)**

ASCE 41-17 Model Building Type:  
a. Longitudinal Direction: [S3 \(Light metal building\)](#)  
b. Transverse Direction: [S3 \(Light metal building\)](#)

Gross Square Footage: [675](#)  
Number of stories *above* grade: [1](#)  
Number of basement stories *below* grade: [0](#)

Year Original Building was Constructed: [2013](#)  
Original Building Design Code & Year: [CBC-2010](#)  
Retrofit Building Design Code & Code (if applicable): [N/A](#)

**SITE INFORMATION**

Site Class: [D](#) Basis: [Inferred](#)  
Geologic Hazards:  
Fault Rupture: [No](#) Basis: [CGS Earthquake Hazards Zone Application](#)  
Liquefaction: [Yes](#) Basis: [CGS Earthquake Hazards Zone Application](#)  
Landslide: [No](#) Basis: [CGS Earthquake Hazards Zone Application](#)

**ATTACHMENT**

Original Structural Drawings: ([N/A](#), [N/A](#), [N/A](#), [N/A](#)) or  
Seismic Evaluation: ([Gifford Golf Building Seismic Evaluation Tier 1, KPFF, 4/14/2021, FEMA 154 Rapid Visual Screening](#))  
Retrofit Structural Drawings: ([N/A](#), [N/A](#), [N/A](#), [N/A](#))



## CERTIFICATION & PRESUMPTIVE RATING VERIFICATION STATEMENT

I, [Mark Hershberg](#), a California-licensed structural engineer, am responsible for the completion of this certificate, and I have no ownership interest in the property identified above. My scope of review to support the completion of this certificate included both of the following ("No" responses must include an explanation):

- a) the review of structural drawings indicating that they are as-built or record drawings, or that they otherwise are the basis for the construction of the building:  Yes  No
- b) visiting the building to verify the observable existing conditions are reasonably consistent with those shown on the structural drawings:  Yes  No

*No as-built drawings were available, so evaluation performed using FEMA 154 Level 2 Rapid Visual Screening protocol on visual observations only.*

Based on my review, I have verified that the UCOP Seismic Performance Level (SPL) is presumptively permitted by the following UC Seismic Program Guidebook provision (choose one of the following):

- 1) Contract documents indicate that the original design and construction of the aforementioned building is in accordance with the benchmark design code year (or later) building code seismic design provisions for UBC or IBC listed in Table 1 below.
- 2) The existing SPL rating is based on an acceptable basis of seismic evaluation completed in 2006 or later.
- 3) Contract documents indicate that a comprehensive<sup>1</sup> building seismic retrofit design was fully-constructed with an engineered design based on the 1997 UBC/1998 **or later** CBC, and (choose one of the following):
  - the retrofit project was completed by the UC campus. Further, the design was based on ground motion parameters, at a minimum, corresponding to BSE-1E (or BSE-R) and BSE-2E (or BSE-C) as defined in ASCE 41, or the full design basis ground motion required in the 1997 UBC/1998 CBC **or later** for EXISTING buildings, and is presumptively assigned an SPL rating of IV.
  - the retrofit project was completed by the UC campus. Further, the design was based on ground motion parameters, at a minimum, corresponding to BSE-1 (or BSE-1N) and BSE-2 (or BSE-2N) as defined in ASCE 41, or the full design basis ground motion required in the 1997 UBC/1998 **or later** CBC for NEW buildings, and is presumptively assigned an SPL rating of III.
  - the retrofit project was not completed by the UC campus following UC policies, and is presumptively assigned an SPL rating of IV.

<sup>1</sup> A comprehensive retrofit addresses the entire building structural system as indicated by the associated seismic evaluation, as opposed to addressing selective portions of the structural system.

Campus: UCLA  
Building Name: Gifford Golf Building  
CAAN ID: 4015  
Auxiliary Building ID:



UNIVERSITY  
OF  
CALIFORNIA

Date: April 14, 2021

**CERTIFICATION SIGNATURE**

Mark Hershberg  
Print Name

Principal  
Title

S5078  
CA Professional Registration No.

6/30/2021  
License Expiration Date

  
Signature

4/14/2021  
Date

KPFF Inc., (213) 418-0201, 700 S. Flower St., Suite 2100, Los Angeles, CA 90017

Firm Name, Phone Number, and Address

AFFIX SEAL HERE





**Table 1: Benchmark Building Codes and Standards**

Building Type <sup>a,b</sup>	Building Seismic Design Provisions	
	UBC	IBC
Wood frame, wood shear panels (Types W1 and W2)	1976	2000
Wood frame, wood shear panels (Type W1a)	1976	2000
Steel moment-resisting frame (Types S1 and S1a)	1997	2000
Steel concentrically braced frame (Types S2 and S2a)	1997	2000
Steel eccentrically braced frame (Types S2 and S2a)	1988 <sup>g</sup>	2000
Buckling-restrained braced frame (Types S2 and S2a)	f	2006
Metal building frames (Type S3)	f	2000
Steel frame with concrete shear walls (Type S4)	1994	2000
Steel frame with URM infill (Types S5 and S5a)	f	2000
Steel plate shear wall (Type S6)	f	2006
Cold-formed steel light-frame construction—shear wall system (Type CFS1)	1997 <sup>h</sup>	2000
Cold-formed steel light-frame construction—strap-braced wall system (Type CFS2)	f	2003
Reinforced concrete moment-resisting frame (Type C1) <sup>i</sup>	1994	2000
Reinforced concrete shear walls (Types C2 and C2a)	1994	2000
Concrete frame with URM infill (Types C3 and C3a)	f	f
Tilt-up concrete (Types PC1 and PC1a)	1997	2000
Precast concrete frame (Types PC2 and PC2a)	f	2000
Reinforced masonry (Type RM1)	1997	2000
Reinforced masonry (Type RM2)	1994	2000
Unreinforced masonry (Type URM)	f	f
Unreinforced masonry (Type URMa)	f	f
Seismic isolation or passive dissipation	1991	2000

Note: This table has been adapted from ASCE 41-17 Table 3-2. Benchmark Building Codes and Standards for Life Safety Structural Performed at BSE-1E.

Note: UBC = Uniform Building Code. IBC = International Building Code.

<sup>a</sup> Building type refers to one of the common building types defined in Table 3-1 of ASCE 41-17.

<sup>b</sup> Buildings on hillside sites shall not be considered Benchmark Buildings.

<sup>c</sup> not used

<sup>d</sup> not used

<sup>e</sup> not used

<sup>f</sup> No benchmark year; buildings shall be evaluated in accordance with Section III.J.

<sup>g</sup> Steel eccentrically braced frames with links adjacent to columns shall comply with the 1994 UBC Emergency Provisions, published September/October 1994, or subsequent requirements.

<sup>h</sup> Cold-formed steel shear walls with wood structural panels only.

<sup>i</sup> Flat slab concrete moment frames shall not be considered Benchmark Buildings.

### UCLA – Gifford Golf Building

**DATE:** 4/14/2021

**FEMA 154 Rapid Visual Screening  
Minimum Building Report Information**



#### BUILDING DATA

Campus: [UCLA](#)

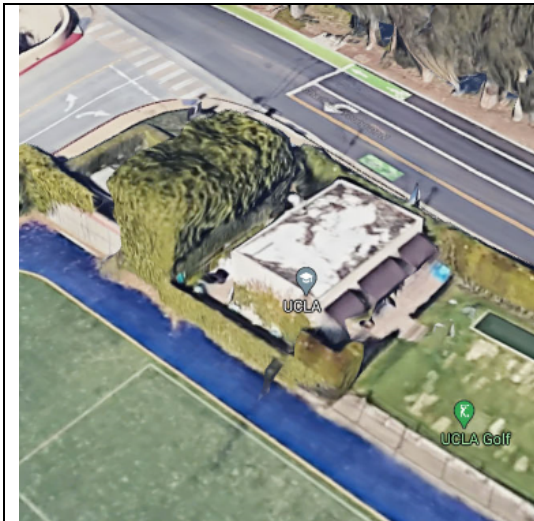
Building Name: [Gifford Golf Building](#)

CAAN ID: 4015

Auxiliary Building ID:

Address: [336 Charles E Young Dr N, Los Angeles CA 90024](#)

Site location coordinates: Latitude [34.0747297](#) Longitudinal [-118.4444635](#)



Aerial Photo



Exterior Elevation

ASCE 41-17 Model Building Type:

- a. Longitudinal Direction: [S3 \(Light metal building\)](#)
- b. Transverse Direction: [S3 \(Light metal building\)](#)

Site-specific Ground Motion Study? [No](#)

Seismic Design Acceleration Parameters of Interest:

- a. For BSE-1E  $S_{XS}=0.897g$  and  $S_{X1}=0.517g$
- b. For BSE-2E  $S_{XS}=1.547g$  and  $S_{X1}=0.947g$

Estimated Fundamental Period (seconds)

- a. Longitudinal: [Unknown](#)
- b. Transverse: [Unknown](#)

Gross Square Footage: 675  
Number of stories *above* grade: 1  
Number of basement stories *below* grade: 0

Year Original Building was Constructed: 2013  
Original Building Design Code & Year: CBC-2010  
Retrofit Building Design Code & Code (if applicable): N/A

### SITE INFORMATION

Site Class: D Basis: Inferred  
Geologic Hazards:  
Fault Rupture: No Basis: CGS Earthquake Hazards Zone Application  
Liquefaction: Yes Basis: CGS Earthquake Hazards Zone Application  
Landslide: No Basis: CGS Earthquake Hazards Zone Application

### UCOP SEISMIC PERFORMANCE RATING (OR “RATING”): IV

#### “BALLPARK” RETROFIT COST (if applicable)

- Minor (<\$50/sf)
- Moderate (~\$50-\$200/sf)
- Major (>\$200/sf)

### SUMMARY TIER 1 SEISMIC EVALUATION STRUCTURAL NON-COMPLIANCES/FINDINGS SIGNIFICANTLY AFFECTING RATING DETERMINATION

Significant Structural Deficiencies, Potentially Affecting Seismic Performance Level Designation:

- Lateral System Stress Check (wall shear, column shear or flexure, or brace axial as applicable)
- Lateral System Detailing (reinforcement ratio, confinement, aspect ratio, etc)
- Load Path
- Adjacent Buildings
- Weak Story
- Soft Story
- Geometry (vertical irregularities)
- Torsion
- Mass – Vertical Irregularity
- Cripple Walls
- Wood Sills (bolting)
- Diaphragm Continuity
- Openings at Shear Walls (concrete or masonry)
- Liquefaction

- Slope Failure
- Surface Fault Rupture
- Masonry or Concrete Wall Anchorage at Diaphragm
- URM wall height to thickness ratio
- URM Parapets or Cornices
- URM Chimney
- Heavy Partitions Braced by Ceilings
- Appendages

#### **POTENTIAL FALLING HAZARDS**

- Heavy ceilings, features or ornamentation above large lecture halls, auditoriums, lobbies or other areas where large numbers of people congregate.
- Heavy masonry or stone veneer above exit ways.
- Unbraced masonry parapets, cornices or other ornamentation above exit ways.
- Unrestrained hazardous materials storage.
- Masonry chimneys.
- Unrestrained natural gas-fueled equipment such as water heaters, boilers, emergency generators, etc.
- None of the above.

#### **BRIEF DESCRIPTION OF ANTICIPATED FAILURE MECHANISM**

#### **COMMENTS AND RECOMMENDATIONS**

Due to lack of as-built documentation, FEMA 154 Level 2 Rapid Visual Screening was conducted to confirm no apparent seismic deficiencies exist. Based on observations and understanding that the building was designed and constructed to a benchmark code under supervision of the campus, a rating of SPL IV is assigned.

#### **Appendices**

##### **A. FEMA 154 Rapid Visual Screening**