

Campus: [UCLA](#)  
Building Name: [Transit Ops - Maintenance Bay Canopy](#)  
CAAN ID: [4522](#)  
Auxiliary Building ID: [4522.1](#)



UNIVERSITY  
OF  
CALIFORNIA

Date: [Feb 17, 2021](#)

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

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

**BUILDING DATA**

Building Name: [Transit Ops - Maintenance Bay Canopy](#)  
Address: [11075 Kinross Ave. Westwood, CA 90024](#)  
Site location coordinates: Latitude [34.0594276](#) Longitudinal [-118.4483805](#)

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

ASCE 41-17 Model Building Type:

- Longitudinal Direction: [S1 and S1a: steel moment-resisting frame](#)
- Transverse Direction: [S1 and S1a: steel moment-resisting frame](#)

Gross Square Footage: [3,416](#)  
Number of stories *above* grade: [1](#)  
Number of basement stories *below* grade: [0](#)

Year Original Building was Constructed: [2004](#)  
Original Building Design Code & Year: [CBC-2001](#)  
Retrofit Building Design Code & Code (if applicable): [CBC-2001](#)

**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: ([Maintenance Bay Canopy, William A. Teipe & Associates, 7/10/2003, S01](#))  
or  
Seismic Evaluation: ([N/A, N/A, N/A, N/A](#))  
Retrofit Structural Drawings: ([UCLA Bus Maintenance Yard Canopy Renovation, Saiful/Bouquet, N4/17/2006, S-1](#))



## 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
- Due to COVID-19 protocols, observations were performed for exterior of building 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.


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<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.



**CERTIFICATION SIGNATURE**

AFFIX SEAL HERE

|   |                         |
|---|-------------------------|
| Mark Hershberg  | Principal               |
| Print Name  | Title                   |
| S5078   | 6/30/2021               |
| CA Professional Registration No.  | License Expiration Date |
|  | 2/17/2021               |
| Signature   | Date                    |



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

Firm Name, Phone Number, and Address

**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.