

UC Seismic Evaluation – 675 Park View

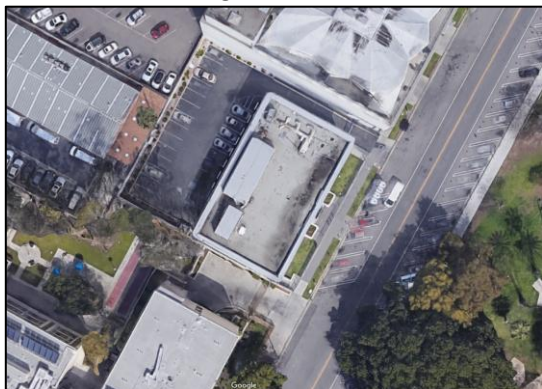
Date: 2/10/2020
UC Campus: UCLA – off campus
Building Name: X675 PKVIEW
Building Address: 675 S. Park View Street, Los Angeles, CA 90057
CAAN ID: 404A
Auxiliary Building ID: N/A



Summary of information provided by Evaluator: Nabih Youssef Associates Structural Engineers

UCOP Seismic Performance Level (or “Rating”): V based on ASCE 41-17 Tier 1 evaluation.

Plan Image or Aerial Photo



Exterior Elevation Photo



Site location coordinates (decimal):

Latitude: 34.058920

Longitude: -118.280391

Is this a “Partial” Building (i.e., a single structure in a complex building? (Y or N): N

ASCE 41-17 Model Building Type:

Longitudinal Direction: C2 – Concrete Shear Walls with Stiff Diaphragms

Transverse Direction: C2 – Concrete Shear Walls with Stiff Diaphragms

Number of stories:

Above grade: 2 Below grade: 1

Original Building Design Code and Year: UBC 1937

Retrofit Building Design Code and Year: N/A

Cost Range to Retrofit (if applicable): N/A

Building information used in this evaluation:

Structural design calculations for Republic Insurance Company, by S.B. Barnes (09-6), October 9, 1940.

Earthquake Zones of Required Investigation Hollywood Quadrangle, California Geological Survey, November 6, 2014.

Scope for completing this form:

Review structural design calculations, site visit and ASCE 41-17 Tier 1 evaluation.

Brief description of structure:

2-story reinforced concrete building with partial basement and approximately 15,000 square feet built in 1941. The building is generally regular-shaped in-plan with overall dimensions of approximately 100' by 60'.

Foundation System: The foundation system consists of shallow spread and continuous footings under the west section of the building and concrete caissons under the east section.

Structural System for Vertical (gravity) loads: The roof and floors are constructed of one-way reinforced concrete pan-joists that span to reinforced concrete girders that are supported by interior reinforced concrete columns and perimeter reinforced concrete walls.

Structural System for Lateral (seismic/wind) loads: The concrete slab roof and floors act as structural diaphragms to transfer seismic forces to perimeter reinforced concrete walls.

BACKGROUND INFORMATION

Site Information: Site Class (A-F): D (Assumed)

Geologic Hazards (Y or N):

- Fault Rupture: N (CGS EZRIM Hollywood)
- Liquefaction: N (CGS EZRIM Hollywood)
- Landslide: N (CGS EZRIM Hollywood)

Site-specific Ground Motion Study? N

Site-modified Spectral Response (0.2s), Hazard Level BSE-2E, S_{XS} : 1.519

Site-modified Spectral Response (1.0s), Hazard Level BSE-2E, S_{XL} : 0.932

Estimated Fundamental Period (seconds):

- Longitudinal Direction: 0.26s
- Transverse Direction: 0.26s

Summary of 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)
- 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 Flexible Diaphragm
- URM wall height to thickness ratio
- URM Parapets or Cornices
- URM Chimney
- Heavy Partitions Braced by Ceilings
- Appendages

Brief Description of Anticipated Failure Mechanism:

The connection of the 2nd floor diaphragm to concrete walls along the east elevation is expected to fail resulting in a redistribution of forces and potential overstress of ground floor walls in shear.

Comments and Additional Deficiencies:

Field investigation and material testing is recommended to verify as-built conditions and material properties.

Connection of canopies located above exits need to be field verified and evaluated.

Seismic Retrofit Concept Sketches/Description (only if above-listed rating is V or greater): N/A

Appendices:

- A. ASCE 41-17 Tier 1 Checklists
- B. Quick Check Calculations