Applicable only for individual buildings that are structurally separate units within a building complex. Each auxiliary building shall be designated with the main building CAAN ID with a decimal number suffix (i.e. main building CAAN ID 5534; auxiliary building CAAN ID 5534.1). Auxiliary building ID is null for a single building or the main building in a building complex.

The designated Seismic Performance Level shall be a Roman numeral associated with the most applicable performance description from Table A.1 in Appendix A of the UC Seismic Safety Policy.

If a building has multiple building types in one story, the model building type should be designated based on engineering judgement as the lateral system that would have the most predominantly negative effect on the seismic behavior of the building in that respective direction.

UC Seismic Evaluation

Date: 06/14/2021
UC Campus: UCLA – on campus
Building Name: Sunset Rec Center
Building Address: 111 Easton Drive, Los Angeles, CA 90024
CAAN ID: 4205A.1
Auxiliary Building ID\(^1\): N/A

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

UCOP Seismic Performance Level\(^2\) (or “Rating”) based on ASCE 41-17 Tier 1/Tier 2 evaluation findings: IV

Site location coordinates (decimal):
Latitude: 34.070524
Longitude: -118.45107

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

ASCE 41-17 Model Building Type\(^3\):
Longitudinal Direction: W1 – Wood Shear Wall
Transverse Direction: W1 – Wood Shear Wall

Number of stories:
Above grade: 1
Below grade: 0

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\(^1\) Applicable only for individual buildings that are structurally separate units within a building complex. Each auxiliary building shall be designated with the main building CAAN ID with a decimal number suffix (i.e. main building CAAN ID 5534; auxiliary building CAAN ID 5534.1). Auxiliary building ID is null for a single building or the main building in a building complex.

\(^2\) The designated Seismic Performance Level shall be a Roman numeral associated with the most applicable performance description from Table A.1 in Appendix A of the UC Seismic Safety Policy.

\(^3\) If a building has multiple building types in one story, the model building type should be designated based on engineering judgement as the lateral system that would have the most predominantly negative effect on the seismic behavior of the building in that respective direction.
Retrofit Building Design Code and Year: N/A

Cost Range to Retrofit (if applicable): Low
“Low” cost-range corresponds to a complete retrofit cost less than $50 per square foot (sf), “Medium” cost-range corresponds to a complete retrofit cost greater than $50 per sf and less than $200 per sf, “High” cost-range corresponds to a complete retrofit cost greater than $200 per sf and less than $400 per sf, and “Very High” cost-range corresponds to a complete retrofit cost greater than $400 per sf.

Building information used in this evaluation:
Structural drawings by John Kariotis & Associates Structural Engineers “Canyon Recreation Center”, dated 09/03/1963

Scope for completing this form:
Reviewed structural drawings for original construction and performed ASCE 41-17 Tier 1 and Tier 2 evaluation.

Brief description of structure:
The 1-story building is a 2800 sf multi-purpose building. The building is octagonal in plan. There are skylights on 3 sides of the building that reduce the shear connection between the diaphragm and the perimeter light framed shear walls.

Foundation System: The foundation system consists of concrete grade beams supported by deep concrete piers. A 4” thick concrete slab forms the ground floor.

Structural System for Vertical (gravity) loads: The roof consists of plywood sheathing supported by wood beams and wood bearing walls. The interior roof beams are supported by 4 rectangular wood posts. The wood posts and bearing walls are supported by concrete grade beam and deep concrete piers.

Structural System for Lateral (seismic/wind) loads: The plywood sheathed roof and floor act as diaphragms to transfer seismic forces to distributed light framed shear walls.

BACKGROUND INFORMATION

Site Information:
Site Class (A-F): D; Default
Geologic Hazards (Y or N):
- Fault Rupture: N; EZRIM Beverly Hills
- Liquefaction: N; USGS
- Landslide: N; EZRIM Beverly Hills
Site-specific Ground Motion Study? N
Site-modified Spectral Response (0.2s), Hazard Level BSE-2E, $S_{x0}$: 1.844
Site-modified Spectral Response (1.0s), Hazard Level BSE-2E, $S_{x1}$: 0.943
Estimated Fundamental Period: 0.32 seconds
Falling Hazards Assessment Summary: None

**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

Note: There is minimal connectivity between the diaphragm and the perimeter shear walls.

**Brief Description of Anticipated Failure Mechanism:**

Shear connection between the diaphragm and the perimeter shear walls relies mostly on wood struts. Additional material testing of wood members should be performed to validate the material properties of the wood members.

**Comments and Additional Deficiencies:**

Although deterioration was not observed at the site, due to evidence of substantial deterioration in the surrounding site structures, the existing wood framing should be inspected by a material testing company specializing in wood members to validate the current rating. Evidence of deteriorated wood members could alter the results of our evaluation.
Seismic Retrofit Concept Sketches/Description (only if above-listed rating is V or greater):

Appendices:

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