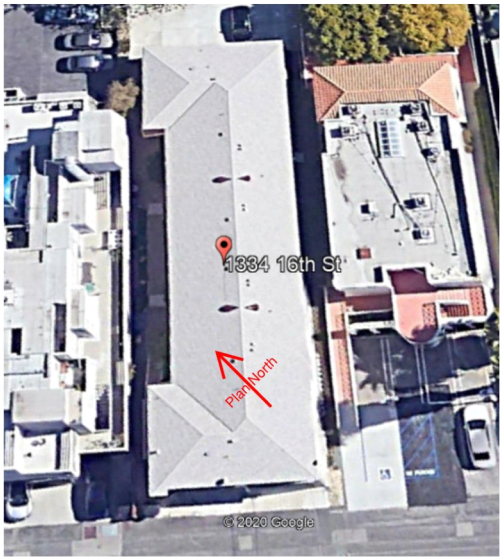
UNIVERSITY OF CALIFORNIA

BUILDING REPORT REQUIREMENTS
ASCE 41-17 TIER 1 SEISMIC EVALUATIONS

BUILDING REPORT

1) UC Campus: Los Angeles
2) Building Name: 16th Street Apartments
3) Building CAAN ID: 4914
4) Auxiliary Building ID:
5) Date of Evaluation: 6/30/2020
6) Evaluation by: Englekirk, TAS
7) Seismic Performance Rating and Basis of Rating: V, ASCE 41-17 Tier 1



8) Plan Image or Aerial Photo

9) Exterior Elevation Photo

10) Site Location
    (a) Latitude Decimal Coordinates: 34.02605
    (b) Longitude Decimal Coordinates: -118.484761
11) ASCE 41-17 Model Building Type and Description
    (a) Longitudinal Direction: W1a: Wood frame, wood shear panels
    (b) Transverse Direction: W1a: Wood frame, wood shear panels
12) Number of Stories
    (a) Above grade: 2
    (b) Below grade: 0
13) Original Building Design Code & Year:
14) Retrofit Building Design Code & Year (if applicable):
15) Cost Range to Retrofit (if applicable): (Low, Medium, High or Very High): Low

Comments: Building acquired by UCLA. No permit information provided and search for permit and drawings in Santa Monica archives was unsuccessful . Soft-story tuck-under parking. No record of seismic upgrade.

BACKGROUND INFORMATION

Site Information

16) Site Class (A – F) and Basis of Assessment
- (a) Site Class: D
- (b) Site Class Basis: Unknown (Default)
- (c) Site Class Company: None
- (d) Site Class Report Date: None
- (e) Site Class Ref Page No.: None

17) Geologic Hazards
- (a) Fault Rupture (Yes, No or Unknown) and Basis of Assessment: No, CGS Maps
- (b) Liquefaction (Yes, No or Unknown) and Basis of Assessment: No, CGS Maps
- (c) Landslide (Yes, No or Unknown) and Basis of Assessment: No, CGS Maps

18) Site-specific Ground Motion Study? (Yes or No) No

Seismic design acceleration parameters of interest:	
For BSE-1N	1.295 and 0.786
For BSE-1E	0.879 and 0.5

19) Estimated Fundamental Period (seconds)
- (a) Longitudinal: 0.175
- (b) Transverse: 0.175

20) Falling Hazards Assessment Summary: None noted.

21) Structural Non-Compliances/Findings Significantly Affecting Rating Determination Summary
Significant Structural Deficiencies, Potentially Affecting *Seismic Performance Rating* Designation:

- (a) Lateral System Stress Check (wall shear, column shear or flexure, or brace axial as applicable): Yes, wall shear stress deficiency noted
- (b) Load Path: Yes, deficiency noted
- (c) Adjacent Buildings: No deficiency noted
- (d) Weak Story: Yes, deficiency noted
- (e) Soft Story: Yes, deficiency noted
- (f) Geometry (vertical irregularities): Yes, vertical irregularity noted
- (g) Torsion: Not Applicable
- (h) Mass – Vertical Irregularity: No deficiency noted
- (i) Cripple Walls: No deficiency noted
- (j) Wood Sills (bolting): No deficiency noted
- (k) Diaphragm Continuity: No deficiency noted
- (l) Openings at Shear Walls (concrete or masonry): No deficiency noted
- (m) Liquefaction: No
- (n) Slope Failure: No

(o) Surface Fault Rupture: No
(p) Masonry or Concrete Wall Anchorage at Flexible Diaphragm: Not Applicable
(q) URM wall height to thickness ratio: Not Applicable
(r) URM Parapets or Cornices: Not Applicable
(s) URM Chimney: Not Applicable
(t) Heavy Partitions Braced by Ceilings: No deficiency noted
(u) Appendages: No deficiency noted

22) Brief Description of Anticipated Failure Mechanism
Open garage results in excessive drift and potential collapse.. Failure of shear wall panels and nailing, hold-downs and/or compression posts.

23) Seismic Retrofit Concept Sketches/Description (only required for buildings rated V or worse)
Provide lateral bracing of open garage front using momment frames or cantilevered columns. Add shear walls. Add plywood to roof diaphragm. Add diaphragm ties and anchorage of roof diaphragm to exterior walls.

Building Report Appendices

A) ASCE 41-17 Tier 1 Checklists (Structural only)

B) Quick Check Calculations