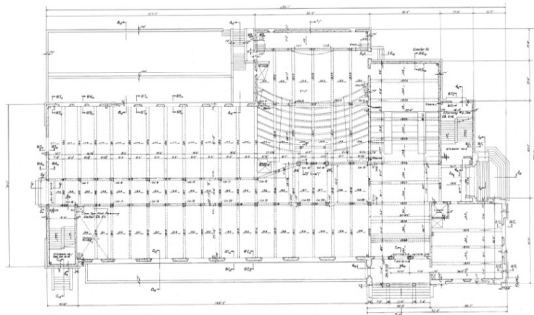




**BUILDING REPORT REQUIREMENTS  
ASCE 41-17 TIER 1 SEISMIC EVALUATIONS**

**BUILDING REPORT**

- 1) UC Campus: [Los Angeles](#)
- 2) Building Name: [Dodd Hall](#)
- 3) Building CAAN ID: [4213](#)
- 4) Auxiliary Building ID:
- 5) Date of Evaluation: [7/15/2020](#)
- 6) Evaluation by: [Englekirk, TAS / CC](#)
- 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: [34.0726629](#)
  - (b) Longitude Decimal Coordinates: [-118.4392759](#)
- 11) ASCE 41-17 Model Building Type and Description
  - (a) Longitudinal Direction: [C2 and C2a: Reinforced concrete shear walls](#)
  - (b) Transverse Direction: [C2 and C2a: Reinforced concrete shear walls](#)
- 12) Number of Stories
  - (a) Above grade: [3](#)
  - (b) Below grade: [1](#)
- 13) Original Building Design Code & Year: [UBC-1946](#)
- 14) Retrofit Building Design Code & Year (if applicable):
- 15) Cost Range to Retrofit (if applicable): (Low, Medium, High or Very High): [Medium](#)



Comments: [Insufficient column confinement beneath \(E\) discontinuous shear walls. Vertical irregularities.](#)



**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	<b>1.637 and 0.83</b>
For BSE-1E	<b>2.456 and 1.245</b>

19) Estimated Fundamental Period (seconds)

- (a) Longitudinal: **0.51**
- (b) Transverse: **0.51**

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, other deficiency noted**
- (b) Load Path: **No deficiency noted**
- (c) Adjacent Buildings: **No deficiency noted**
- (d) Weak Story: **No deficiency noted**
- (e) Soft Story: **No deficiency noted**
- (f) Geometry (vertical irregularities): **Yes, vertical irregularity noted**
- (g) Torsion: **No deficiency noted**
- (h) Mass – Vertical Irregularity: **No deficiency noted**
- (i) Cripple Walls: **Not Applicable**
- (j) Wood Sills (bolting): **Not Applicable**
- (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

Concrete gravity column failure due to deformation compatibility drift.

23) Seismic Retrofit Concept Sketches/Description (only required for buildings rated V or worse)

Upgrade to Seismic Rating Level IV: existing column strengthening below discontinuous shear walls using FRP wrapping.

Upgrade to Seismic Rating Level III: existing column strengthening using FRP wrapping at all columns.

Strengthening of several existing concrete shear walls using FRP and/or shotcrete.

**Building Report Appendices**

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

B) Quick Check Calculations