



Address: 403 Hilgard Ave
Los Angeles, CA Zip: 90024

Other Identifiers: CAAN 4212

Building Name: Bus Shelter

Use: Bus Shelter

Latitude: 34.071104 Longitude: -118.438491

S_s: 1.557g S_r: 0.54g

Screener(s): TAS/Englekirk Date/Time: 04/21/2021 12:00 PM

No. Stories: Above Grade: 1 Below Grade: 0 Year Built: 1937 EST

Total Floor Area (sq. ft.): 646 Code Year: 1935 UBC

Additions: None Yes, Year(s) Built: _____

Occupancy: Assembly Commercial Emer. Services Historic Shelter
Industrial Office School Government
Utility Warehouse Residential, #Units: _____

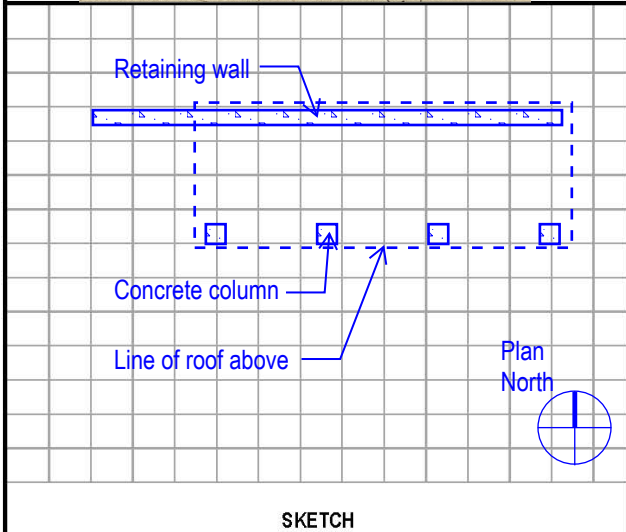
Soil Type: A Hard Rock B Avg Rock C Dense Soil D Stiff Soil E Soft Soil F Poor Soil DNK *If DNK, assume Type D.*

Geologic Hazards: Liquefaction: Yes/No/DNK Landslide: Yes/No/DNK Surf. Rupt.: Yes/No/DNK

Adjacency: Pounding Falling Hazards from Taller Adjacent Building

Irregularities: Vertical (type/severity) Plan (type) Torsion

Exterior Falling Hazards: Unbraced Chimneys Heavy Cladding or Heavy Veneer
 Parapets Appendages
 Other: Unanchored roof tile



COMMENTS:
Code year is assumed as no drawings were provided. North line is a retaining wall with approximately 7' of retained earth. There is a moderate upslope to the west of the wall. Site was not considered to be sloping. South line consists of four RC columns; it is likely they are not well-confined. Roof framing is large timber; connections between columns and framing members is unknown. Roof tiles are badly damaged and do not appear to be anchored. East bay has been enclosed with nonstructural infill material. UC Seismic Rating: V
 Additional sketches or comments on separate page

BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S_{L1}

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LM)	S4 (RC SW)	S5 (URM INF)	C1 (MRF)	C2 (SW)	C3 (URM INF)	PC1 (TU)	PC2	RM1 (FD)	RM2 (RD)	URM	MH
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V _{L1}		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, V _{L1}		-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, P _{L1}		-1.1	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.6	-0.6	-0.8	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmark		1.6	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S _{MIN}		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.5	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.2	1.0

FINAL LEVEL 1 SCORE, S_{L1} ≥ S_{MIN}: 0.5

EXTENT OF REVIEW

Exterior: Partial All Sides Aerial
Interior: None Visible Entered

Drawings Reviewed: Yes No

Soil Type Source: NA

Geologic Hazards Source: CGS Maps

Contact Person: TAS/Englekirk

OTHER HAZARDS

Are There Hazards That Trigger A Detailed Structural Evaluation?

Pounding potential (unless S_{L2} > cut-off, if known)

Falling hazards from taller adjacent building

Geologic hazards or Soil Type F

Significant damage/deterioration to the structural system

ACTION REQUIRED

Detailed Structural Evaluation Required?

Yes, unknown FEMA building type or other building

Yes, score less than cut-off

Yes, other hazards present

No

Detailed Nonstructural Evaluation Recommended? (check one)

Yes, nonstructural hazards identified that should be evaluated

No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary

No, no nonstructural hazards identified DNK

LEVEL 2 SCREENING PERFORMED?

Yes, Final Level 2 Score, S_{L2} 0.6 No

Nonstructural hazards? Yes No

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM INF = Unreinforced masonry infill MH = Manufactured Housing FD = Flexible diaphragm
BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm

Figure 1-1

RVS Level 1 Data Collection Form for High seismicity region.

Rapid Visual Screening of Buildings for Potential Seismic Hazards

**Level 2 (Optional)
HIGH Seismicity**

FEMA P-154 Data Collection Form

Optional Level 2 data collection to be performed by a civil or structural engineering professional, architect, or graduate student with background in seismic evaluation or design of buildings.

Bldg Name: <u>Bus Shelter</u>	Final Level 1 Score: $S_{L1} = 0.5$	<i>(do not consider S_{MIN})</i>	
Screener: <u>TAS/Englekirk</u>	Level 1 Irregularity Modifiers: $V_{L1} = 0.0$	$P_{L1} = -0.8$	
Date/Time: <u>04/21/2021 12:00 PM</u>	ADJUSTED BASELINE SCORE: $S' = (S_{L1} - V_{L1} - P_{L1}) = 0.5 - 0.0 - (-0.8) = 1.3$		

STRUCTURAL MODIFIERS TO ADD TO ADJUSTED BASELINE SCORE

Topic	Statement (If statement is true, circle the "Yes" modifier; otherwise cross out the modifier.)	Yes	Subtotals	
Vertical Irregularity, V_{L2}	Sloping Site	W1 building: There is at least a full story grade change from one side of the building to the other.	-1.2	$V_{L2} = 0.0$ <i>(Cap at -1.2)</i>
		Non-W1 building: There is at least a full story grade change from one side of the building to the other.	-0.3	
	Weak and/or Soft Story (circle one maximum)	W1 building cripple wall: An unbraced cripple wall is visible in the crawl space.	-0.6	
		W1 house over garage: Underneath an occupied story, there is a garage opening without a steel moment frame, and there is less than 8' of wall on the same line (for multiple occupied floors above, use 16' of wall minimum).	-1.2	
		W1A building open front: There are openings at the ground story (such as for parking) over at least 50% of the length of the building.	-1.2	
		Non-W1 building: Length of lateral system at any story is less than 50% of that at story above or height of any story is more than 2.0 times the height of the story above.	-0.9	
	Setback	Non-W1 building: Length of lateral system at any story is between 50% and 75% of that at story above or height of any story is between 1.3 and 2.0 times the height of the story above.	-0.5	
		Vertical elements of the lateral system at an upper story are outboard of those at the story below causing the diaphragm to cantilever at the offset.	-1.0	
		Vertical elements of the lateral system at upper stories are inboard of those at lower stories.	-0.5	
	Short Column/ Pier	There is an in-plane offset of the lateral elements that is greater than the length of the elements.	-0.3	
		C1,C2,C3,PC1,PC2,RM1,RM2: At least 20% of columns (or piers) along a column line in the lateral system have height/depth ratios less than 50% of the nominal height/depth ratio at that level.	-0.5	
		C1,C2,C3,PC1,PC2,RM1,RM2: The column depth (or pier width) is less than one half of the depth of the spandrel, or there are infill walls or adjacent floors that shorten the column.	-0.5	
Split Level	There is a split level at one of the floor levels or at the roof.	-0.5		
Other Irregularity	There is another observable severe vertical irregularity that obviously affects the building's seismic performance.	-1.0		
	There is another observable moderate vertical irregularity that may affect the building's seismic performance.	-0.5		
Plan Irregularity, P_{L2}	Torsional irregularity: Lateral system does not appear relatively well distributed in plan in either or both directions. (Do not include the W1A open front irregularity listed above.)	-0.7	$P_{L2} = -0.7$ <i>(Cap at -1.1)</i>	
	Non-parallel system: There are one or more major vertical elements of the lateral system that are not orthogonal to each other.	-0.4		
	Reentrant corner: Both projections from an interior corner exceed 25% of the overall plan dimension in that direction.	-0.4		
	Diaphragm opening: There is an opening in the diaphragm with a width over 50% of the total diaphragm width at that level.	-0.2		
	C1, C2 building out-of-plane offset: The exterior beams do not align with the columns in plan.	-0.4		
Redundancy	Other irregularity: There is another observable plan irregularity that obviously affects the building's seismic performance.	-0.7		
Pounding	The building has at least two bays of lateral elements on each side of the building in each direction.	+0.3	$M = 0.0$	
	Building is separated from an adjacent structure by less than 1% of the height of the shorter of the building and adjacent structure and:			
	The floors do not align vertically within 2 feet.	-1.0		
	One building is 2 or more stories taller than the other.	-1.0		
	The building is at the end of the block.	-0.5		
S2 Building	"K" bracing geometry is visible.	-1.0		
C1 Building	Flat plate serves as the beam in the moment frame.	-0.4		
PC1/RM1 Bldg	There are roof-to-wall ties that are visible or known from drawings that do not rely on cross-grain bending. (Do not combine with post-benchmark or retrofit modifier.)	+0.3		
PC1/RM1 Bldg	The building has closely spaced, full height interior walls (rather than an interior space with few walls such as in a warehouse).	+0.3		
URM	Gable walls are present.	-0.4		
MH	There is a supplemental seismic bracing system provided between the carriage and the ground.	+1.2		
Retrofit	Comprehensive seismic retrofit is visible or known from drawings.	+1.4		

FINAL LEVEL 2 SCORE, $S_{L2} = (S' + V_{L2} + P_{L2} + M) \geq S_{MIN}$: $1.3 + 0.0 + (-0.7) = 0.6$ *(Transfer to Level 1 form)*

There is observable damage or deterioration or another condition that negatively affects the building's seismic performance: Yes No
If yes, describe the condition in the comment box below and indicate on the Level 1 form that detailed evaluation is required independent of the building's score.

OBSERVABLE NONSTRUCTURAL HAZARDS

Location	Statement (Check "Yes" or "No")	Yes	No	Comment
Exterior	There is an unbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney.		X	
	There is heavy cladding or heavy veneer.		X	
	There is a heavy canopy over exit doors or pedestrian walkways that appears inadequately supported.		X	
	There is an unreinforced masonry appendage over exit doors or pedestrian walkways.		X	
	There is a sign posted on the building that indicates hazardous materials are present.		X	
	There is a taller adjacent building with an unanchored URM wall or unbraced URM parapet or chimney.		X	
	Other observed exterior nonstructural falling hazard:	X		Unanchored roof tiles
Interior	There are hollow clay tile or brick partitions at any stair or exit corridor.		X	
	Other observed interior nonstructural falling hazard:		X	

Estimated Nonstructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)

- Potential nonstructural hazards with significant threat to occupant life safety → Detailed Nonstructural Evaluation recommended
- Nonstructural hazards identified with significant threat to occupant life safety → But no Detailed Nonstructural Evaluation required
- Low or no nonstructural hazard threat to occupant life safety → No Detailed Nonstructural Evaluation required

Comments:

Figure 1-2 RVS Level 2 Optional Data Collection Form for High seismicity region.