

Guideline for Rapid Visual Screening of Buildings

For Potential Seismic Hazards

Prepared By:

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I. INTROCDUCTION

1.1 Background

Myanmar lies in one of the two main earthquake belts of the world with a complex seismo-tectonic process. At least nineteen earthquakes of Magnitude, Ms > 7 have occurred in the region and historical records demonstrate that great and destructive earthquakes have occurred throughout much of the region (Wang Yu, 2014). The Sagaing fault is the most prominent active fault in Myanmar which extends from north of Lake Indawgyi, southward along the Ayeyarwaddy River, north of Mandalay and along the eastern margin of the BagoYoma to the Andaman Sea in addition to the Red River fault, Papun – Wang Chao fault, Three Pagodas fault and other minor faults which crisscross the country.

While Myanmar has experienced destructive earthquake in the past, recent earthquakes in Tarlay Earthquake (2011) and Thabeikkyin Earthquake (2012) highlighted the vulnerability of building stocks. However, very limited work has been undertaken in assessing structural vulnerability of the building stock and the risk to the built environment both in urban and rural areas. Furthermore, the risk knowledge on the earthquake among stakeholders across country is low. Given the high degree of exposure and vulnerability to earthquake and the need to address risk through structural and non-structural mitigation measures, there is a need to develop / adapt and standardize tools which can be used by interested stakeholders in Myanmar.



Tarlay Earthquake

Tarlay Earthquake

Thabeikkyin Earthquake

Figure (1) Building Damages in Tarlay Eathquake and Thabeikkyin Earthquake

Myanmar Engineering Society, Myanmar Geo-Sciences Society, Myanmar Earthquake Committee and UN-Habitat in collaboration with Relief and Resettlement Department are currently working to develop /adapting tools (HAZUS) for assessing earthquake risk at City level and undertook Knowledge Attitude and Practice (KAP) on earthquake risk in 3 cities with the funding support from ECHO through MCCR¹ and Ministry of Foreign Affairs (Norway). As a first step within the framework of broader risk reduction initiatives as part of Myanmar Comprehensive Disaster Risk Reduction Programme (MCDRRP) and Earthquake Risk Reduction Programme of UN-Habitat, an Expert Group meeting is convened to discuss the development of tools to assess structural vulnerability of building stock and the Development of Risk Communication strategy and tools for earthquake. Rapid Visual Screening of Building is part of the development of tools to assess structural vulnerability of building stock.

1.2 Rapid Visual Screening of Buildings for Potential Seismic Hazards (RVS Procedure)

Vulnerability of the buildings is a critical determinant for earthquake risk. Experts say "Earthquakes don't kill people, but unsafe buildings do". Structural vulnerability is a measure of the damage; a building is likely to experience when subjected to ground shaking of a specific intensity. In general dynamic response of a structure during ground shaking is a very complex behavior. It depends on a number of inter-related parameters that are often very difficult to predict precisely. These include ground shaking; the the building will experience; the extent to which the structure will be excited by and response to the ground shaking; the strength of the materials in the structure; the quality of construction and condition of individual structural elements; the interaction of the structural and non-structural elements of the building; furnishings and contents present in the building at the time. Most of these factors can be estimated, but never precisely known.

¹Myanmar Consortium for Community Resilience (MCCR) is part of the DIPECHO IX Action Plan for South East Asia in Myanmar. MCCR is comprised of five INGOs and one UN Agency namely Action Aid, Plan International, Oxfam, Help Age International, Action Contre Ia Faim and UN-Habitat

Seismic evaluation of existing Buildings demands a three-tiered process Screening Phase (Tier 1), Evaluation Phase (Tier 2), and Detailed Evaluation Phase (Tier 3) to assess either the Life Safety or Immediate Occupancy Performance Level of the building². Screening Phase (Tier 1) uses a Rapid Visual Screening (RVS) methodology, while the Tier 2 and Tier 3 needs more detailed and sophisticated analysis. Since Myanmar is adopting Myanmar National Building Code that is following International Building Code for design as a first step, FEMA 154 is considered relevant for adaption.

Tier 1	•Screening Phase	Rapid Visual Screening Procedure
Tier 2	•Evaluation Phase	
Tier 3	• Detailed Evaluation Phase	

Figure (2) Three-tiered Process of Seismic Evaluation for Existing Buildings

Rapid Visual Screening (RVS) is a quick way of assessing the building vulnerability based on visual inspection³. Once identified as potentially hazardous, such buildings should be further evaluated by a design professional experienced in seismic design to determine if, in fact, they are seismically hazardous. The RVS procedure uses a methodology based on a sidewalk survey of a building and a data collection form, which the person conducting the survey completes, based on visual observation of the building from the exterior, and if possible, the interior. If large number of buildings needed to be evaluated, carrying out RVS of buildings minimizes the number of building that requires detailed assessment. Therefore, Rapid Visual Screening will be useful for all buildings except lifeline structures where detailed vulnerability assessment is always necessary. RVS procedure can be implemented relatively quickly and inexpensively to develop a list of potentially hazardous buildings without the high cost of a detailed seismic analysis of individual buildings. FEMA has updated the Rapid Visual Screening of Buildings for Potential Seismic Hazards: A Handbook (Third Edition) FEMA P-154 / January 2015.

This guideline will briefly explain the detailed procedures for RVS building survey. Bridges, large towers, and other non-building structure types are not covered by this procedure. According to recent seismic vulnerability assessment works in Bago, Taungoo, Sagaing and Pyay cities, the major building stocks in Myanmar are - Bamboo, Timber, Brick, Brick Noggin, Concrete and Steel Building. RVS Forms in this guideline cover total 18 buildings type as shown in Table (7).

1.3 Uses of Rapid Visual Screening Results

The main purpose of RVS results is to know the current situation of existing buildings in relation to seismic hazard and other related hazards so that the building owner can know his/ her building requires strengthening or retrofitting measures. The buildings can be identified according to RVS scores. The scoring system provided in each building with a numerical score can be used as a prioritization tool in vulnerability assessment. (FEMA 155, Third Edition)

1.4 Expert Group

Professional engineers and geological experts from Myanmar Engineering Society, Myanmar Earthquake Committee and Myanmar Geo-science Society are invited and prepare the Rapid Visual Screening Data Collection Form in collaboration with UN-Habitat professional engineers. The followings are the lists of the experts from MES, MGS and MEC.

- 1. U Nyun Maung San (Chairman, Special Project Committee, MES)
- 2. U Saw Htwe Zaw (Secretary, Special Project Committee, MES)
- 3. U Ko Ko Gyi (CEC Member, MES)
- 4. U Nyan Myint Kyaw (Member, Special Project Committee, MES)
- 5. U Myint Oo (Member, Special Project Committee, MES)
- 6. Daw Kyi Kyi Khaing (Member, Special Project Committee, MES)
- 7. U Soe Thura Tun (Secretary, MEC)
- 8. Dr. Myo Thant (Secretary, MGS)

²Seismic Evaluation of Existing Buildings (ASCE/SEI 31-03)

³The Applied Technology Council (ATC), with funding from the Federal Emergency Management Agency (FEMA) in the US, developed the FEMA 154 Rapid Visual Screening of Buildings for Potential Seismic Hazards: A Handbook in 1998 and updated in 2002 and more recently in 2015.

II. INSTRUCTIONS OF FILLING DATA COLLECTION FORM LEVEL I

Level 1 Data Collection Form can be seen in Appendix A. This form can be performed by a wide range of individuals, including civil engineers, structural engineers, architects, design professionals, building officials, construction contractors, facility mangers, firefighters, or other individuals with a general background in building design or construction. The screeners fill out the forms and determine the scores to get seismic performance of the building. The collected data/ information have to be put in respective table format. There are five different types of Level 1 Data Collection Form, representing different seismicity regions; *Very High, High, Moderately High, Moderate and Low.* The basis scores and score modifiers vary with seismicity regions. Refer to Table (1) below to choose respective Seismicity Region of the Surveyed Area. For S_s Value, refer to Figure (4) and Figure (5) for S₁ Value. In Table (2), S_s and S₁ for selected cities and towns in Myanmar are described with numeric value. After the respected Seismicity Region has chosen, the screener can start the process by following the instructions described in later sections.

Seismicity Region Spectral Acceleration Response, S _s (Short-period or 0.2 seconds)		Spectral Acceleration Response, S ₁ (Long-period or 1.0 second)		
Low	S _s < 0.25 g	S ₁ < 0.10 g		
Moderate	0.25 g ≤ S _s < 0.50 g	0.10 g ≤ S ₁ < 0.20 g		
Moderately High	0.50 g ≤ S _s < 1.00 g	$0.20 \text{ g} \le \text{S}_1 < 0.40 \text{ g}$		
High	1.00 g ≤ S _s < 1.50 g	0.40 g ≤ S ₁ < 0.60 g		
Very High	S _s ≥ 1.50 g	S ₁ ≥ 0.60 g		
Note: g = acceleration of gravity in horizontal direction				

Table (1) Seismicity Region Determination from MCER Spectral Acceleration Response

In level 1 screening form, it includes six parts; (1) Building Identification, (2) Building Information, (3) Comments, (4) Photographs and Sketch parts, (5) Basic Score, Modifiers and Final Score parts, and (6) Extent of Review, Other Hazards and Action Required parts. The following steps will help you completing Level 1 Data Collection Form.

2.1 Building Identification

Address:	City:
Other ID:	Use:
Building Name:	
Latitude:	
Longitude:	
Screener:	Date/Time:

Figure (3) "Building Identification" Portion of Level 1 Data Collection Form

Level 1 Data Collection Form starts with Building Identification part. Building Identification is primarily important for this survey as the later information will be utilized in hazard assessment and mitigation measures for this building, broadly for this region where the building is located.

Address: Specify where the building is located including the street name and block name. It is suggested to include the full range of address numbers for the building, for example "No 1~5".

City: Fill in the city name where the building is situated.

Other ID: This information can be filled in by the house owner. The ID can be Block ID or House ID.

Use: Fill in the occupancy types of the building.

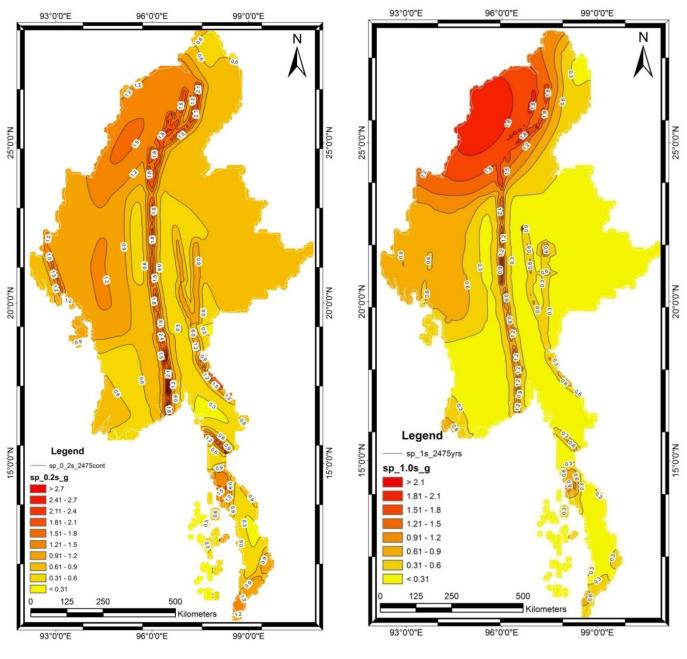
Building Name: Mention the name of the building so that it can be easily known. In some cases, the building has its own name describing the occupancy type.

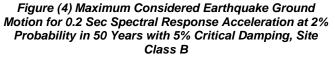
Latitude: Describe the location of the building in latitude.

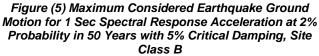
Longitude: Mention the longitude of the building.

 S_s : Mention the site-specific ground motion S_s value. Refer to Table (2) for detailed values.

 S_1 : Specify the S_1 value as per table (5) where the building is located. Refer to Figure (2) and (3) for detailed values of S_s and S_1 .







Screener. Name of the person who did survey and fill in the form. This information is also important that the person can have more information of the surveyed building. We can recall memory for some uncertain things in the form later.

Date/ Time: Mention the date and time at which the building is inspected and surveyed.

Sr. No.	City/ Town	Ss	S ₁	Remarks
1	Bagan	1.55	0.62	
2	Bago (Pegu)	1.07	0.43	
3	Bhamo	0.66	0.26	
4	Coco Islands (Great Coco Island)	1.18	0.47	
5	Dawei (Tavoy)	0.25	0.10	
6	Hakha	1.87	0.75	
7	Hpa-An (Pa-An)	0.74	0.30	
8	Kengtung	1.32	0.52	
9	Kyaukpyu (Kyaukphyu)	0.84	0.33	
10	Labutta	0.64	0.26	
11	Lashio	0.48	0.19	
12	Loikaw	1.41	0.56	
13	Magwe	1.45	0.58	
14	Mandalay	2.01	0.80	
15	Mawlamyine (Mawlamyaing)	0.74	0.30	
16	Meiktila	2.07	0.83	
17	Monywa	1.72	0.69	
18	Myitkyina	1.70	0.68	
19	Naypyitaw	1.32	0.53	
20	Pakokku	1.54	0.61	
21	Pathein (Bassein)	0.87	0.35	
22	Putao	2.05	0.82	
23	Pyay (prome)	0.80	0.32	
24	Pyinmana	1.32	0.53	
25	Sagaing	2.12	0.85	
26	Shwebo	2.25	0.90	
27	Sittwe (Akyab)	1.26	0.50	
28	Taungoo	1.20	0.48	
29	Taunggyi	1.69	0.68	
30	Thandwe (Sandoway)	0.88	0.35	
31	Yangon (Rangoon)	0.77	0.31	

2.2 Building Information

#Stories - Above (Ground:	. Below Grou	nd:	Year Built:	. 🗆 Est	
Total Floor Area (otal Floor Area (sft):					
Additions:	□ None	🗆 Yes, Yea	rs Built			
Occupancy:	Assembly	Commer	cial	Emergency Services	□ Historic	
	Industrial	□ Office		□ Schools	□ Government	
	□ Utility	□ Warehouse		Residential,#Units:	□ Shelter	
Soil Type:	A: Hard Ro	ock	□ C:	Soft Rock	E: Soft Soil	
	B: Normal	Rock D: Hard Soil / DNK		Hard Soil / DNK	□ F: Poor Soil	
Geohazards:	Lique	efaction:		s, 🗆 No, 🗆 DNK		
	Lar	idslide:	□ Yes, □ No, □ DNK			
	Surface R	upture:		s, 🗆 No, 🗆 DNK		
Adjacency:	Pounding		🗆 Fa	ling Hazards from Taller A	djacent Building	
Irregularities:	rities: Severe Vertical Irregu		rity	Plan Irregularity	/	
	□ Moderate \	/ertical Irregu	ularity			
	Unbraced	Chimneys	🗆 He	avy Cladding or Heavy Ve	neer	
Exterior Falling Hazards:	Parapets		□ Appendages			
	□ Other:					

Figure (6) "Building Information" Portion of Level 1 Data Collection Form

Stories - Above Ground: Mention the number of floors above the natural ground level. The number of stories is a good measure for the height of the building.

Stories - Below Ground: Mention the number of floors below the natural ground level. Information on number of story below grade can be used later if the authority or stakeholder considers the flooding issue in their development plan.

Year Built: Mention the year in which the building was completed. If the "year built" cannot be available in some cases. At this case, the screeners can make estimation of building's year built by looking at the architectural and built styles from the street. If the screener fills that year built by approximation basic, check the EST box beside so that the data can be known as estimated.

Total Floor Area (sqft): Mention the total floor area of the building in square feet unit. If the building is multi-storeyed, total floor area can be estimated by multiplying floor area of one story by the number of floor. The purpose of this data is to estimate the building cost or value and to estimate the occupancy load. If the building total floor area is on approximate basic, please put "EST" behind the data.

Code Year: Describe the year of the building code that was used to design the building. "Code Year" can be checked on the drawings of the building. Some buildings may be constructed without following any Building Code or may be constructed before the Building Code was adopted. If the "Building Code" is not known, leave it blank.

Additions: This information is related to the separate portions of the main building. Some extra or extended buildings are constructed attached to the main building. Extended building may be constructed as independent structures with separate joints or may be integrally attached to the main building. If additional buildings are present, the "YES" box should be checked and the built year for that additional building should be enumerated. If the year the addition was on the estimate basic, "EST" should be added beside the year data.

Occupancy: Check the relevant use or occupancy of the building. In RVS Form, there are 9 general occupancy classes and 3 occupancy designations, Table (3). These occupancy types can be correlated with the "Use" of the building. For example, the restaurant building is surveyed, screener may fill the "Use" as "Restaurant" and he or she can choose the "Occupancy" as "Commercial". If the building doesn't not fall on these mentioned occupancy classes, detailed explanations should be included in the "Comments" section. For occupancy designation, screener can check the relevant block; Historic, Government, or Shelter. Some school occupancies are used as shelters in delta region of Myanmar.

	Occupancy Classes		
Assembly	Public assembly where 300 or more people gather. Examples include theaters, auditoriums,		
	community centers, performance halls, and churches.		
Commercial	Retail and wholesale businesses, financial institutions, restaurants, parking structure, and		
	light warehouses.		
Emergency Services	Critical facilities including police, fire stations, hospitals, and communication centers.		
Industrial	Large facilities including factories, assembly plants, and heavy manufacturing facilities.		
Office	Typical office buildings that house clerical and management functions.		
Residential	Houses, townhouses, dormitories, motels, hotels, apartments and condominiums, and		
	residences for the aged or disabled.		
School	All public and private educational facilities from nursery school to university level.		
Warehouse	Large warehouses used for product and commercial warehouses. (In FEMA - 154		
	Second Edition "Industrial" class included large warehouses).		
Utility	Water, wastewater, power, gas, and electric facilities. (Captured as "Industrial" class		
	facilities in FEMA - 154 Second Edition).		
	Occupancy Designations		
Government	Local, state, and federal non-emergency related buildings.		

Table (3) Occupancy Classes and Occupancy Designations

Historic	Many variations from community to community.
Shelter	Designated shelters or buildings specifically identified as shelters for post-event occupancy
	("Emergency Services")

Soil Type: Mention soil information or site class where the building is located. There are various data sources for the soil type of a building. If soil map of the surveyed region is not available, the following Soil Type Definition ranging from A to F can be referred for estimation.

Soil Type/ Site Class	Shear Wave Velocity in the Top 30 meters of Soil, ${\sf V_s}^{30}$	Standard Blow Count, N	Un-drained Shear Strength of the Upper 100ft, su		
A. Hard Rock	V _s ³⁰ > 5000 ft/s				
B. Normal Rock	2500 ft/s < V_s^{30} < 5000 ft/s				
C. Soft Rock	1200 ft/s < V_s^{30} < 2500 ft/s	N > 50	s _u > 2000 psf		
D. Hard Soil/ DNK	600 ft/s < V_s^{30} < 1200 ft/s	15 < N < 50	1000 psf < s _u < 2000 psf		
	V _s ³⁰ ≤ 600 ft/s	N < 15	s _u < 1000 psf		
E. Soft Soil	More than 10 feet of soft soil with plasiticity index $PI > 20$, water content $w > 40$ %, and				
	s _u < 500 psf				
	Soil requiring site-specific evaluations.				
	- Soils vulnerable to potential failure or collapse under seismic loading, such as liquefiable				
F. Poor Soil	soils, quick and high-sensitive clays, collapsible weakly-cemented soils.				
	- Thicker than 10 feet of peat or highly organic clay.				
	 Very high plasticity clays (25 feet with PI > 75) 				
 More than 120 feet of soft or medium stiff clays. 					

Table (4) Soil Type Definitions

Geohazards: Check the relevant block of the geo-hazards that can cause damages to the building. Liquefaction, landslide potential and surface fault rupture are the three main types of geologic hazards in this form. If the screener is not sure on whether the geo-hazards exist at the building site, check the "DNK" (Do not know). *Liquefaction* is a process by which sediments below the water table temporarily lose stiffness and strength and behave as a viscous liquid rather than a solid. These areas may be along or reclaimed from the river basin where there is higher water table. If the height of the slope is greater than the distance from the nearest side of the building to the slope, a *potential landslide hazard* block should be checked on the Data Collection Form. Refer to figure below for landslide hazard potential.

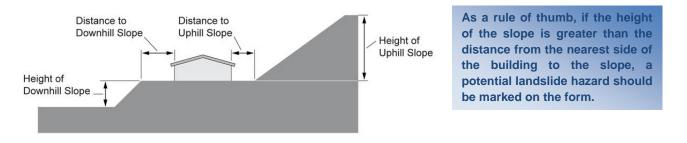


Figure (7) Building with Potential Landslide Hazard (Source; FEMA 154 Third Edition)

Adjacency: Check the relevant block "Pounding" and "Falling Hazards from Taller Adjacent Building" of the building. Consider Pounding when the separation between adjacent buildings is less than:

- 2" times number of stories in shorter building (in Very High seismicity region)
- 1 1/2 " times number of stories in shorter building (in High seismicity region)
- 1" times number of stories in shorter building (in Moderately High seismicity region)
- 1/2 " times number of stories in shorter building (in Moderate and Low seismicity region)

Refer to the following figure (8) for Pounding Calculation and Consideration example.

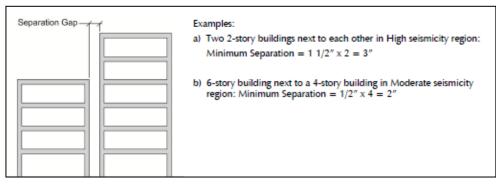
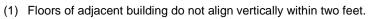


Figure (8) Separation Gap Calculation Example (Source; FEMA 154 Third Edition)

AND one or more of the following conditions apply:



(2) One building is 2 or more stories taller than the other.

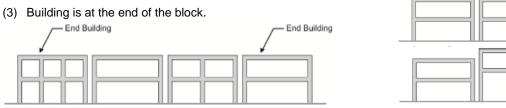


Figure (9) Pounding Considerations (Source; FEMA 154 Third Edition)

Irregularities: Check the relevant block of "Severe Vertical Irregularities", "Moderate Vertical Irregularities" and "Plan Irregularities". See the tables below for detailed explanations of each irregularity case, Table (5) and Table (6).

	Vertical Irregularity	Severity	Level 1 Instructions
Sloping Site		Varies	Apply if there is more than a one-story slope from one side of the building to the other. Evaluate as Severe for W1 buildings as shown in Figure (a); evaluate as Moderate for all other building types as shown in Figure (b).
Unbraced Cripple Wall		Moderate	Apply if unbraced cripple walls are observed in the crawlspace of the building. This applies to W1 buildings. If the basement is occupied, consider this condition as a soft story.
Weak and/ or Soft Story		Severe	Apply: Figure (a): For a W1 house with occupied space over a garage with limited or short wall lengths on both sides of the garage opening. Figure (b): For a W1A building with an open front at the ground story (such as for parking). Figure (c): When one of the stories has less wall or fewer columns than the others (usually the bottom story). Figure (d): When one of the stories is taller than the others (usually the bottom story).

Table (5) Vertical Irregularity Reference Guide (FEMA 154, Third Edition)

Out-of- plane Setback	(a) (b)	Severe	Apply if the walls of the building do not stack vertically in plan. This irregularity is most severe when the vertical elements of the lateral system at the upper levels are outboard of those at the lower levels as shown in Figure (a). The condition in Figure (b) also triggers this irregularity. If non stacking walls are known to be nonstructural, this irregularity does not apply. Apply the setback if greater than or equal to 2 feet.
In-plane Setback		Moderate	Apply if there is an in-plane offset of the lateral system. Usually, this is observable in braced frame Figure (a) and shear wall buildings Figure (b).
Short Column/ Pier	(c)	Severe	Apply if: Figure (a): Some columns/ piers are much shorter than the typical columns/ piers in the same line. Figure (b): The columns/ piers are narrow compared to the depth of the beams. Figure (c): There are infill walls that shorten the clear height of the column. Note this deficiency is typically seen in older concrete and steel building types.
Split Levels		Moderate	Apply if the floors of the building do not align or if there is a step in the roof level.

Table (6) Plan Irregularity Reference Guide (FEMA 154, Third Edition)

	Plan Irregularity	Level 1 Instructions
Torsion	(a) Solid Wall (b) Wall	Apply if there is good lateral resistance in one direction, but not the other, of if there is eccentric stiffness in plan (as shown in Figure (a) and (b); solid walls on two or three sides with walls with lots of openings on the remaining sides).
Non- Parallel Systems		Apply if the sides of the building do not form 90-degree angles.
Reentrant Corner	(a) (b) (c)	Apply if there is a reentrant corner; i.e., the building is L, U, T, or + shaped, with projections of more than 20 feet. Where possible, check to see if there are seismic separations where the wings meet. If so, evaluate for pounding.

Diaphragm Openings		Apply if there is a opening that has a width of over 50 % of the width of the diaphragm at any level.
Beams do	a th	Apply if the exterior beams do not align with the columns in
not align		plan. Typically, this applies to concrete buildings, where the
with		perimeter columns are outboard of the perimeter beams.
Columns		

Exterior Falling Hazards: Check the relevant exterior falling hazards in the form. Un-braced chimneys are common falling hazards for masonry and wood frame building as they are unreinforced and not adequately tied the main building. Parapets, Heavy cladding or heavy veneer, and appendages or canopies or architectural elements are in the same problem with chimneys. If these are not properly anchored or properly unreinforced, the appropriate box should be checked. Detailed explanations can be put in the "Comments" section checking "Other" box in this part.

2.3 Comments

COMMENTS	
□ Additional sketches or comments on separate page	

Figure (10) "Comments" Portion of Level 1 Data Collection Form

In "Comments" space, write down the detailed explanations of the building describing important structural features.

2.4 Photographs and Sketch Part

P	H	0	тс	DG	iR	AF	ч																									
s	ĸ	E	гс	H	_		_	_		_	_	i	_	_		_	_		_	_		_	_		_	_		_	_			
-	-	-	i. T	-	-	i	-	-	i T	-	-	į	-	-	į	-	-	į	-	-	į	-	-	į	-	-	į	-	-	į	-	_
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Figure (11) "Photograph and Sketch" Portion of Level 1 Data Collection Form

Photographs: There is the space on Level 1 Data Collection Form for attaching photos. Put the recorded photos of the building in that space. If possible, the screener should take the photos of the building targeting each side of the building and any important features such as observing adjacency, pounding, exterior falling hazards for the identification purposes. Screener can take one or more photos of the building, but have to sure that the other photos are also attached with the Form (either electronic format or hard copy format).

Sketch: Draw a sketch of the surveyed building in that area. The screener can draw a plan sketch or elevation sketch indicating the significant features of the building as per preferences. At least the screener should draw the plan of the building. More detailed information or important features can be recorded on the sketch. Refer to the following figures for the sketch example.

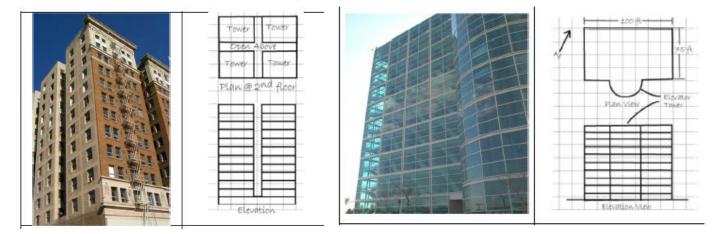


Figure (12) Sketch Examples (Source; FEMA 154 Third Edition)

			BAS	IC SC	ORE, I	MODIF	IERS, A	AND FI	NAL LE	VEL 1	SCOR	E, S _{L1}								
BUILDING TYPE	DNK	W1	W1A	W2	S1	S2	S3	S4	S5	C1	C2	C3	PC1	PC2	RM1	RM2	URM	MH	BN1	BN2
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2	0.9	1.1	1.0	1.1	1.1	0.9	1.1	0.9	0.8
Severe Vertical Irregularity, V _{L1}		-0.9	-0.9	-0.9	-0.8	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.6	NA	-0.6	-0.6
Moderate Vertical Irregularity, V _{L1}		-0.6	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA	-0.3	-0.3
Plan Irregularity, P _{L1}		-0.7	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA	-0.3	0.0
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0	NA	NA
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.5	NA	1.4	1.7	NA	1.5	1.7	1.7	1.6	NA	0.5	NA	NA
Soil Type A or B		0.5	0.5	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.2	0.3	0.1	0.1	0.1	0.2
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.3	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.1	-0.2	0.0	-0.1	0.0	0.0
Soil Type E (>3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.1	-0.2	0.0	NA	NA	NA
Minimum Score, S _{MIN}		0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.2	1.0	0.2	0.2
FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$																				

2.5 Basic Score, Modifiers and Final Score

Figure (13) "Basic Score, Modifiers and Final Score" Portion of Level 1 Data Collection Form

The structural scoring system consists of a matrix of Basic Scores (one for each FEMA Building Type and its associated seismic force-resisting system) and Score Modifiers to account for observed attributes that modify seismic performance. The five forms vary from each other only in the values of these Basic Scores and Score Modifiers and the Level 2 pounding criteria. The Basic Scores and Score Modifiers are based on (1) time-dependent seismic design and construction practices in the region; (2) attributes known to decrease or increase seismic resistance capacity; and (3) maximum considered ground motions for the seismicity region under consideration. The Basic Score, Score Modifiers, and Final Score all relate to the probability of building collapse, should the maximum ground motions considered by the RVS procedure occur at the site. Final Scores typically range from 0 to 7. For choosing Basic Score, Modifiers and Final Score, building type must be known. Refer to table (7) below for Building Type. Circle the relevant score according to building type and sum them. After that, balance with S_{MIN}. Final Level Score, S_{L1} must be greater than S_{MIN} in all building type. A higher score means that the building has smaller probability of collapse.

Table (7) Building Types

	Building Type
DNK	If the building type cannot significantly identified, or engineer is not sure the building type
W1	Light wood frame single- or multiple-family dwellings of one or more stories in height
W1A	Light wood frame multi-unit, multi-story residential buildings with plan areas on each floor of greater than 3,000 ft ²
W2	Wood frame commercial and industrial buildings with a floor area larger than 5,000 square feet. For commercial
VV Z	and industrial buildings with less than 5,000 square feet, the W2 type can be used as well.
S1	Steel moment-resisting frame buildings
S2	Braced steel frame buildings
S3	Light metal buildings
S4	Steel frame buildings with cast-in-place concrete shear walls
S5	Steel frame buildings with unreinforced masonry infill walls
C1	Concrete moment-resisting frame buildings
C2	Concrete shear wall buildings
C3	Concrete frame buildings with unreinforced masonry infill walls
PC1	Tilt-up buildings
PC2	Precast concrete frame buildings
RM1	Reinforced masonry buildings with flexible floor and roof diaphragms
RM2	Reinforced masonry buildings with rigid floor and roof diaphragms
URM	Unreinforced masonry bearing wall buildings
мн	Manufactured Housing
BN1	Good Brick Nogging Building
BN2	Poor constructed Brick Nogging Building

Pre-Code: One of the key issues that must be addressed in the planning process is the determination of the year in which seismic codes were initially adopted and enforced by the local jurisdiction; and the year in which significantly improved seismic codes were adopted and enforced (this latter year is known as the benchmark year). On the Very High, High, Moderately High, and Moderate seismicity forms, Basic Scores are provided for buildings built after the initial adoption of seismic codes, but before substantially improved codes were adopted (benchmark year). This generally corresponds to buildings designed based on the Uniform Building Code (UBC) in the period between 1941 and 1975. Score Modifiers designated as "Pre-Code" and "Post-Benchmark" are provided, respectively, for buildings built before the adoption of codes and for buildings built after the adoption of substantially improved codes. In Low seismicity regions, the Basic Scores have been calculated assuming the buildings were built without consideration of seismic codes. For buildings in these regions, the Score Modifier designated as "Pre-Code" is not applicable (N/A), and the Score Modifier designated as "Post-Benchmark" is applicable for buildings built after the adoption of seismic codes.

2.6 Extent of Review, Other Hazards, and Action Required

EXTENT OF REVIEW			OTHER HAZARDS	ACTION REQUIRED				
Exterior:			Are There Hazards That Trigger A Detailed	Detailed Structural Evaluation Required?				
Interior:			Structural Evaluation?	Yes, unknown building type or other building				
Drawing Reviewd:			\Box Pounding potential (Unless S_{L1} > Cut-off, if	□ Yes, score less than cut-off				
Soil Type Source:			known)	Yes, other hazards present	□ No			
Geohazards Source:			□ Falling hazards from taller adjacent building	Detailed Nonstructural Evaluation Recommended?				
Contact Person:				C Yes, nonstructural hazard identified, should be eva	luated			
LEVEL 2 SCREENING PERFORMED)?		Geologic hazards or Soil Type F	No, nonstructural hazards exist that may require m	itigation, but			
\Box Yes, Final Level 2 Score, S _{L2} :	□ No		□ Significant damage/deterioration to the	a detailed evaluation is not necessary				
Nonstructural Hazards?	□ Yes	🗆 No	structural system	No, no nonstructural hazards identified	D DNK			
Where information	on cannot be v	/erified,	screener shall note the following: EST = Estimat	ed or unreliable data (OR) DNK = Do Not Know				

Figure (14) "Extent of Review, Other hazards, and Action Required" Portion of Level 1 Data Collection Form

Extent of Review: This section cover the whole screening process identifying whether the screener had access the Exterior and Interior sides of the building, Drawing, Soil Type and Geohazards Source, and Contact Person. If the level 1 score is less than

cut-off point or if the screener thinks that the building requires further investigation, it is checked "Yes" in "Level 2 Screening Performed?" A score of 2.0 is suggested as a cut-off point for standard occupancy buildings, based on present seismic design criteria.

Other Hazards: Check the relevant box concerning "Pounding potential", Falling Hazards", "Geologic Hazards of Soil Type" and "Significant Damage/ Deterioration to the structural system". These hazards are not considered in the score system of the Level 1 form, but they can cause damage to the building. If one of these hazards conditions exists in the building, a "Detailed Structural Evaluation" is required even though the Level 1 score is less than the cut-off point.

Action Required: As per consequences of above hazards conditions and overall screening process, tick the appropriate box in the form for further process. It is the final part of Level 1 Data Collection Form. There are two parts in the "Action Required" section; structural and non-structural evaluation parts. Check the relevant box in each part. See the following sections for choosing criteria of each option. "DNK" (Do not know) option is also presented in the form.

For Detailed Structural Evaluation,

Tick "Yes, unknown FEMA Building Type or other building" if the screener has little or no confidence about any choice for the structural system, or if the building does not conform to any of the (17) FEMA Building Types considered on the form, the screening cannot be used to conclude that the building is not potentially hazardous. Therefore, a Detailed Structural Evaluation of the building should be conducted by an experienced design professional. In some cases, the Supervising Engineer or another more experienced screener may be able to determine the FEMA Building Type and complete the screening.

Tick "Yes, score less than cut-off" if the building receives a score that is less than the cut-off, it may be seismically hazardous and should receive a Detailed Structural Evaluation by an experienced design professional.

Tick "Yes, other hazards present" if other hazards are present, as indicated in the "Other Hazards" section of the form, the building may be seismically hazardous and should receive a Detailed Structural Evaluation by an experienced design professional.

Tick "**No**" if the building receives a score greater than the cut-off, and no other hazards are present, then a Detailed Structural Evaluation is not required.

For Detailed Nonstructural Evaluation,

Tick "Yes, nonstructural hazards identified that should be evaluated" if a nonstructural hazard has been observed and further nonstructural evaluation is recommended to determine whether the identified potential falling hazard is actually a threat. For example, a detailed evaluation would be necessary to determine whether a building's heavy cladding is properly anchored. If the detailed evaluation reveals that it is properly anchored, the heavy cladding is no longer considered a falling hazard.

"No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary" This box is checked if a nonstructural hazard that is a known threat has been observed; eg; an unreinforced brick chimney. In these cases, additional evaluation is not necessary, although mitigation will be necessary if the threat is to be reduced. The jurisdiction may decide to make mitigation of these falling hazards mandatory.

"No, no nonstructural hazards identified" If no exterior falling hazards have been observed during the screening, further nonstructural evaluation is not necessary.

III. INSTRUCTIONS OF FILLING DATA COLLECTION FORM LEVEL II (OPTIONAL)

Level 2 Data Collection Form is optional type and it should be filled by a civil or structural engineering professional, architect, or graduate student who has experiences and background knowledge on seismic evaluation of design of buildings. It should be noted that the screener applies same type of seismicity region to both Level 1 and Level 2 Form. If possible, Level 1 and Level 2 should be screened by same person. In Level 2 Data Collection Form, it includes four main sections;

- (1) Building Information and Adjusted Base Line Score,
- (2) Structural Modifiers to Add to Adjusted Baseline Score,
- (3) Observable Nonstructural Hazards, and
- (4) Comments.

3.1 Building Information and Adjusted Base Line Score

Building Name	Final Level 1 Score: S ₁₁ =	(Do not consider S _{MIN})
Screener :	Level 1 Irregularity Modifiers: Vertical Irregularity, VII =	Plan Irregularity, $P_{II} =$
Date/ Time	ADJUSTED BASELINE $S' = (S_{11} - V_{11} - P_{11}) =$	

Figure (15) "Building Information and Adjusted Base Line Score" Portion of Level 2 Data Collection Form

Building Name: Mention the name of the building so that it can be easily known and identify.

Screener. Fill in the name of the screener. It is important as the screener can have more information on the building that he or she did survey. This information can be useful at a later stage.

Date/ Time: Describe the date and time at which the building is screened/ surveyed.

Final Level 1 Score: Take the S_{L1} value from Level 1 Data Collection Form.

Level 1 Irregularities Modifiers; Vertical Irregularity: Fill in the Level 1 Vertical Irregularity Score.

Level 1 Irregularities Modifiers; Plan Irregularity: Fill in the Level 1 Plan Irregularity Score.

Adjusted Baseline Score: Fill in the S' value by calculating with the following equation. V_{L1} and P_{L1} values are taken from the above Vertical Irregularity Modifier and Plan Irregularity Modifier.

 $S' = S_{L1} - V_{L1} - P_{L1}$

3.2 Structural Modifiers to Add to Adjusted Baseline Score

In this part, there are three main modifiers that can give different score modifiers.

- Vertical Irregularity, V_{L2}
- Plan Irregularity, PL2

- Miscellaneous, M (Comprising of Redundancy, Pounding, S2, C1, PC1, RM1, URM, MH Building, and Retrofit features) Circle the relevant score modifiers for each section, and then sum all and get the V_{L2} , P_{L2} , and M Score Modifiers respectively. Final Level 2 Score, S_{L2} is the summing of Adjusted Baseline Score, (S' value from *Building Information and Adjusted Base Line Score for Level 2* section), Vertical Irregularity (V_{L2} Score Modifier), Plan Irregularity (P_{L2} Score Modifier), and M Score Modifiers. See the equation below for Final Level 2 Score. S_{L2} score can be transfer to Level 1 Form so that it can be judged with S_{MIN} .

Final Level 2 Score, $S_{L2} = S' + V_{L2} + P_{L2} + M \ge S_{MIN}$

$$S' + V_{L2} + P_{L2} + M \ge S_{MIN}$$

In the last part of Final Level 2 Score, there is a "Yes" / "No" question stating that the building has observable damage or deterioration or another condition that negatively affects the building's seismic performance. If the screener checks the "Yes" box, more detailed explanations can be filled out in the "Comments" section al the last part of Level 2 Data Collection Form.

Topic		Statement (If statement is	true, circle "Yes" modifier; otherwise cross out the modifie	er)	Yes	Subtotal
Vertical	Sloping Site	W1 Building : There is at least a full sto	ry grade change from one side of the building to the other.		-0.9	
Irregularity,	Sloping Sile	Non-W1 Building : Ther is at least a full	story grade change from one side of the building to the other.		-0.2	1
V ₁₂	Weak	W1 Building Cripple Wall : An unbraced	d cripple wall is visible in the crawl space.		-0.5	
V L2	and/or Soft Story	W1 House over Garage : Underneath a	in occupied story, there is a garage opening without a steel mor	nent frame, and there is		
	(Circle one	less than 8 ft of wall on the same line (f	or multiple occupied floors above, use 16 ft of wall minimum)		-0.9	1
	maximum)	W1A Building Open Front : There are o	penings at the ground story (such as for parking) over at least 5	50 % of the length of the		1
		building.		, i i i i i i i i i i i i i i i i i i i	-0.9	1
			tem at any story is less than 50 % of that at story above or heig	ht of any story is more		1
					-0.7	1
		than 2.0 times the height of the story at				1
			tem at any story is between 50 % and 75 % of that at story abo	ve or neight of any story is	0.4	1
	0 11 1	between 1.3 and 2.0 times the height o			-0.4	
	Setback	Vertical elements of the lateral system	at an upper story are outboard of those at the story below causi	ng the diaphragm to		1
		cantilever at the offset.			-0.7	1
		Vertical elements of the lateral system	at upper stories are inboard of those at lower stories.		-0.4	
			elements that is greater than the length of the elements.		-0.2	
	Short Column/	C1,C2,C3,PC1,PC2,RM1,RM2 : At leas	st 20 % of columns (or piers) along a column line in the lateral s	ystem have height/depth		1
	Pier	ratios less than 50 % of the nominal he	ight/depth ratio at that level.		-0.4	1
		C1,C2,C3,PC1,PC2,RM1,RM2 : The co	olumn depth (or pier width) is less than one half of the depth of t	he spandrel, or there are		1
		infill walls or adjacent floors that shorter	n the column.		-0.4	1
	Split Level	There is a split level at one of the floor	levels or at the roof.		-0.4	1
	Other	There is another observable severe ver	tical irregularity that obviously affects the building's seismic per	formance.		$V_{L2} =$
	Irregularity		vertical irregularity that may affect the building's seismic perform		-0.4	(Cap at -0.9
Plan	Torsional Irre	egularity: Lateral system does not appea	r relatively well distributed in plan in either or both directions. (D	o not include the W1A	-0.5	1
Irregularity,	open front irr	egularity listed above)				1
P ₁₂	Non-parallel	System: There are one or more major ve	ertical elements of the lateral system that are not orthogonal to	each other.	-0.2	
	Reentrant Co	orner: Both projections from an interior c	orner exceed 25 % of the overall plan dimensions in that direction	on.	-0.2	1
	Diaphragm C	Opening: There is an opening in the diap	hragm with a width over 50 % of the total diaphragm width at the	at level.	-0.2	
	C1, C2 Build	ings Out-of-plane Offset: The exterior be	eams do not align with the columns in plan.			P _{L2} =
			rregularity that obviously affects the building's seismic performa	nce.		(Cap at -0.7
Redundancy	i	•	s on each side of the building in each direction.		0.2	ł
Pounding	Building is se	eparated from an adjacent structure by	The floors do not align vertically within 2 feet.	(Cap total	-0.7	
	less than 1.5	% of the height of the shorter of the	One building is 2 or more stories taller than the other.	pounding modifiers	-0.7	1
	building and	adjacent structure and:	The building is at the end of the block.	at -0.9)	-0.4	1
S2 Building	"K" bracing g	geometry is visible.			-0.7	1
C1 Building	Flat plate set	rves as the beam in the moment frame.			-0.3	l
PC1/ RM1	There are ro	of-to-wall ties that are visible or known fr	om drawings that do not rely on cross-grain bending. (Do not co	ombine with post-		1
Building	benchmark o	or retrofit modifier)			0.2	1
-	The building	has closely spaced, full height interior w	alls (rather than an interior space with few walls such as in a wa	arehouse)	0.2	1
JRM	Gable walls a				-0.3	l
/H			vided between the carriage and the ground.		0.5	M -
Retrofit		sive seismic retrofit is visible or known fro	om drawings.	······		M =
	L 2 SCORE, S	$S_{L2} = (S' + V_{L2} + P_{L2} + M) \ge S_{MIN}$:		(Transfer	to Le	vel 1 Forn

Figure (16) "Structural Modifiers to Add to Adjusted Baseline Score" Portion of Level 2 Data Collection Form

Level 2 Form

3.3 Observable Nonstructural Hazards

Location	Statement (Check "Yes" or "No")	Yes No	Comments
Exterior	There is an unbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney.		
	There is heavy cladding or heavy veneer.		
	There is a heavy canopy over exit doors or pedestrian walkways that appears inadequately supported.		
	There is an unreinforced masonry appendage over exit doors or pedestrian walkways.		
	There is a sign posted on the building that indicates hazardous materials are present.		
	There is a taller adjacent buidling with an unanchored URM wall or unbraced URM parapet or chimney.		
	Other observed exterior nonstructural falling hazard.		
Interior	There are hollow clay tile or brick partitions at any stair or exit corridor.		
	Other observed interior nonstructural falling hazard.		
Estimated	Nonstructural Seismic Performance (Check appropriate box and transfer to Level 1 form conslusions)		•
D Pe	ptential nonstructural hazards with significant threat to occupant life safety> Detailed Nonstructural Eva	aluation recom	imended.
	onstructural hazards identified with significant threat to occupant life safety> But no Detailed Nonstructu	ural Evaluation	n required.
	w or no nonstructural hazard threat to occupant life safety> No Detailed Nonstructural	Evaluation red	auired

Figure (17) "Observable Nonstructural Hazards" Portion of Level 2 Data Collection Form

Check the relevant statement stating "Yes" or "No". The main non-structural hazards are exterior and interior location of the building. In both exterior and interior non structural hazard parts, it is required that the screener read each and every statement

and checks the relevant box. If the screener chooses "Yes" box, there is comments section at the right side of the statement. Describe the important features or characteristics on this comments section. There are seven statements concerning with Exterior Observable Non Structural Hazards and two statements stating Interior Observable Non Structural Hazards.

After reviewing each of the statements, the screener uses judgment to estimate the nonstructural seismic performance of the building. There are three boxes in this part;

- D Potential Nonstructural Hazards with significant threat to occupant life safety.
- □ Nonstructural hazards identified with significant threat to occupant life safety.
- Low or no nonstructural hazard threat to occupant life safety.

If the screener chooses first option, then the relevant measures will be "Detailed Non structural Evaluation Recommended." For second option, the relevant option will be "Detailed Nonstructural Evaluation is recommended But not required". For the third option, the measure is "No Detailed Nonstructural Evaluation is required".

3.4 Comments

Comments :

Figure (18) "Comments" Portion of Level 2 Data Collection Form

Describe the special conditions or important features in the "Comments" space. The screener should fill in the detailed information of what he or she found out. If required, the screener can use extra sheet of paper to note down the information ensuring that this sheet is attached to the Data Collection Form.

IV. APPENDIX – DATA COLLECTION FORMS

VERY HIGH Seismicity	-	Level I
	-	Level II (Optional)
HIGH Seismicity	-	Level I
	-	Level II (Optional)
MODERATELY HIGH Seismicity	-	Level I
	-	Level II (Optional)
MODERATE Seismicity	-	Level I
	-	Level II (Optional)
LOW Seismicity	-	Level I
	-	Level II (Optional)

(Adopted from FEMA P-154 Data Collection Form)

LEVEL 1 VERY HIGH Seismicity

						r		-									H Se		
PHOTOGRAPH																			
							Oth	er ID:						Use:					
						Bu	-												
							Lat	itude:						S _s	:				
							Long	itude:						S ₁	:				
							Scre	eener:						Date	/Time:				
						#Stori	es - Ab	ove Gr	ound:		Below	Ground:		Year	Built: .		□ Est		
						Total I	Floor A	rea (sf	it):					Code	Year:				
						Add	itions:		□ None	e	□ Yes,	Years	Built:						
						Occup	ancy:		□ Asse	embly	□ Com	mercial		mergen	cy Serv	ices	□ Hist	oric	
									🗆 Indu	strial	□ Offic	e		Schools			□ Gov	/ernme	nt
									🗆 Utilit	у	□ War	ehouse		Residenti	al,#Unit	s:	🗆 She	lter	
						Soil Ty	ype:		🗆 A: H	ard Ro	ck		C: Soft	Rock			🗆 E: S	Soft Soi	l I
SKETCH				Ì					🗆 B: N	ormal l	Rock		D: Hard	Soil / DI	NK		🗆 F: F	oor So	il
						Geoha	azards:			Liquef	action:] Yes, □	No, 🗆 D	NK				
										Lan	dslide:] Yes, 🗆	No, 🗆 D	NK				
	(Surf	face Ru	upture:] Yes, 🗆	No, 🗆 D	NK				
		1				Adjace	ency:		Pour	nding] Falling	Hazards	from Ta	aller Ad	jacent l	Building	3
						Irregu	larities	:	□ Seve	ere Ver	tical Irre	gularity		🗆 Pla	an Irregi	ularity			
											/ertical I				5				
											Chimney] Heavy	Cladding	or Heav	vy Vene	er		
							or Falli	ng	□ Para	pets			Append	-					
))					Hazaro	ds:		□ Othe										
						соми	IENTS												
	i																		
 - - 																			
 																			
		$\frac{1}{2}$	$\frac{1}{2}$																
							itional	kotob	es or coi	mmont		ooroto n	0.00						
			BAS		ORE				NAL LE				aye						
BUILDING TYPE	DNK	W1	W1A		S1	S2	S3	S4	S5	C1	C2		PC1 P	2 RM1	RM2	URM	МН	BN1	BN2
Basic Score		2.1	1.9	1.8	1.5	1.4	1.6	1.4		1.0	1.2		1.1 1		1.1				0.8
Severe Vertical Irregularity, V_{L1}	┟───╊	-0.9	-0.9	-0.9	-0.8	-0.7		1.4			1.4			0 1.1	1 1.1		11	00	
		-0.5		-0.5	-0.0	-0.1	-08	-0.7	1.2		-0.8		07 -0	7 -0.7	-0.7	0.9	1.1	0.9	
	1	-0.6		-0.5			-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7 -0	_		-0.6	NA	-0.6	-0.6
Moderate Vertical Irregularity, V_{L1}	└──┟	-0.6	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.7 -0.3	-0.7 -0.4	-0.4	-0.6 -0.3	-0.4 -0	4 -0.4	-0.4	-0.6 -0.3	NA NA	-0.6 -0.3	-0.6 -0.3
Plan Irregularity, P_{L1}		-0.7	-0.5 -0.7	-0.6	-0.4 -0.5	-0.4 -0.5	-0.5 -0.6	-0.4 -0.4	-0.7 -0.3 -0.4	-0.7 -0.4 -0.4	-0.4 -0.5	-0.6 -0.3 -0.3	-0.4 -0 -0.5 -0	4 -0.4 4 -0.4	-0.4 -0.4	-0.6 -0.3 -0.3	NA NA NA	-0.6 -0.3 -0.3	-0.6 -0.3 0.0
Plan Irregularity, P _{L1} Pre-Code		-0.7 -0.3	-0.5 -0.7 -0.3	-0.6 -0.3	-0.4 -0.5 -0.3	-0.4 -0.5 -0.2	-0.5 -0.6 -0.3	-0.4 -0.4 -0.2	-0.7 -0.3 -0.4 -0.1	-0.7 -0.4 -0.4 -0.1	-0.4 -0.5 -0.2	-0.6 -0.3 -0.3 0.0	-0.4 -0 -0.5 -0 -0.2 -0	4 -0.4 4 -0.4 1 -0.2	-0.4 -0.4 -0.2	-0.6 -0.3 -0.3 0.0	NA NA NA 0.0	-0.6 -0.3 -0.3 NA	-0.6 -0.3 0.0 NA
Plan Irregularity, P _{L1} Pre-Code Post-Benchmark		-0.7 -0.3 1.9	-0.5 -0.7 -0.3 1.9	-0.6 -0.3 2.0	-0.4 -0.5 -0.3 1.0	-0.4 -0.5 -0.2 1.1	-0.5 -0.6 -0.3 1.1	-0.4 -0.4 -0.2 1.5	-0.7 -0.3 -0.4 -0.1 NA	-0.7 -0.4 -0.4 -0.1 1.4	-0.4 -0.5 -0.2 1.7	-0.6 -0.3 -0.3 0.0 NA	-0.4 -0 -0.5 -0 -0.2 -0 1.5 1	4 -0.4 4 -0.4 1 -0.2 7 1.6	-0.4 -0.4 -0.2 1.6	-0.6 -0.3 -0.3 0.0 NA	NA NA NA 0.0 0.5	-0.6 -0.3 -0.3 NA NA	-0.6 -0.3 0.0 NA NA
Plan Irregularity, P _{L1} Pre-Code Post-Benchmark Soil Type A or B		-0.7 -0.3 1.9 0.5	-0.5 -0.7 -0.3 1.9 0.5	-0.6 -0.3 2.0 0.4	-0.4 -0.5 -0.3 1.0 0.3	-0.4 -0.5 -0.2 1.1 0.3	-0.5 -0.6 -0.3 1.1 0.4	-0.4 -0.4 -0.2 1.5 0.3	-0.7 -0.3 -0.4 -0.1 NA 0.2	-0.7 -0.4 -0.4 -0.1 1.4 0.2	-0.4 -0.5 -0.2 1.7 0.3	-0.6 -0.3 -0.3 0.0 NA 0.1	-0.4 -0 -0.5 -0 -0.2 -0 1.5 1 0.3 0	4 -0.4 4 -0.4 1 -0.2 7 1.6 2 0.3	-0.4 -0.4 -0.2 1.6 0.3	-0.6 -0.3 -0.3 0.0 NA 0.1	NA NA NA 0.0 0.5 0.1	-0.6 -0.3 -0.3 NA NA 0.1	-0.6 -0.3 0.0 NA NA 0.2
Plan Irregularity, <i>P</i> _{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories)		-0.7 -0.3 1.9 0.5 0.0	-0.5 -0.7 -0.3 1.9 0.5 -0.2	-0.6 -0.3 2.0 0.4 -0.4	-0.4 -0.5 -0.3 1.0 0.3 -0.3	-0.4 -0.5 -0.2 1.1 0.3 -0.2	-0.5 -0.6 -0.3 1.1 0.4 -0.2	-0.4 -0.4 -0.2 1.5 0.3 -0.2	-0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1	-0.7 -0.4 -0.4 -0.1 1.4 0.2 -0.1	-0.4 -0.5 -0.2 1.7 0.3 -0.2	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0	-0.4 -0 -0.5 -0 -0.2 -0 1.5 1 0.3 0 -0.2 -0	4 -0.4 4 -0.4 1 -0.2 7 1.6 2 0.3 1 -0.2	-0.4 -0.4 -0.2 1.6 0.3 -0.2	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0	NA NA 0.0 0.5 0.1 -0.1	-0.6 -0.3 -0.3 NA NA 0.1 0.0	-0.6 -0.3 0.0 NA NA 0.2 0.0
Plan Irregularity, <i>P_{L1}</i> Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories)		-0.7 -0.3 1.9 0.5 0.0 -0.4	-0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4	-0.6 -0.3 2.0 0.4 -0.4 -0.4	-0.4 -0.5 -0.3 1.0 0.3 -0.3 -0.3	-0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3	-0.5 -0.6 -0.3 1.1 0.4 -0.2 NA	-0.4 -0.2 1.5 0.3 -0.2 -0.3	-0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1	-0.7 -0.4 -0.1 1.4 0.2 -0.1	-0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 -0.1	-0.4 -0 -0.5 -0 -0.2 -0 1.5 1 0.3 0 -0.2 -0 NA -0	4 -0.4 4 -0.4 1 -0.2 7 1.6 2 0.3 1 -0.2 1 -0.2	-0.4 -0.4 -0.2 1.6 0.3 -0.2 -0.2	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0	NA NA 0.0 0.5 0.1 -0.1 NA	-0.6 -0.3 -0.3 NA NA 0.1 0.0 NA	-0.6 -0.3 0.0 NA NA 0.2 0.0 NA
Plan Irregularity, <i>P</i> _{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories) Minimum Score, <i>S</i> _{MIN}		-0.7 -0.3 1.9 0.5 0.0	-0.5 -0.7 -0.3 1.9 0.5 -0.2	-0.6 -0.3 2.0 0.4 -0.4	-0.4 -0.5 -0.3 1.0 0.3 -0.3	-0.4 -0.5 -0.2 1.1 0.3 -0.2	-0.5 -0.6 -0.3 1.1 0.4 -0.2	-0.4 -0.4 -0.2 1.5 0.3 -0.2	-0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1	-0.7 -0.4 -0.4 -0.1 1.4 0.2 -0.1	-0.4 -0.5 -0.2 1.7 0.3 -0.2	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 -0.1	-0.4 -0 -0.5 -0 -0.2 -0 1.5 1 0.3 0 -0.2 -0	4 -0.4 4 -0.4 1 -0.2 7 1.6 2 0.3 1 -0.2 1 -0.2	-0.4 -0.4 -0.2 1.6 0.3 -0.2	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0	NA NA 0.0 0.5 0.1 -0.1	-0.6 -0.3 -0.3 NA NA 0.1 0.0	-0.6 -0.3 0.0 NA NA 0.2 0.0
Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories) Minimum Score, S_{MIN} FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$		-0.7 -0.3 1.9 0.5 0.0 -0.4	-0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4 0.7	-0.6 -0.3 2.0 0.4 -0.4 -0.4 0.7	-0.4 -0.5 -0.3 1.0 0.3 -0.3 -0.3 0.5	-0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3 0.5	-0.5 -0.6 -0.3 1.1 0.4 -0.2 NA	-0.4 -0.2 1.5 0.3 -0.2 -0.3	-0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1	-0.7 -0.4 -0.1 1.4 0.2 -0.1	-0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3 0.3	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 -0.1 0.3	-0.4 -0 -0.5 -0 -0.2 -0 1.5 1 0.3 0 -0.2 -0 NA -0 0.2 0	4 -0.4 4 -0.4 1 -0.2 7 1.6 2 0.3 1 -0.2 1 -0.2	-0.4 -0.4 -0.2 1.6 0.3 -0.2 -0.2	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0	NA NA 0.0 0.5 0.1 -0.1 NA	-0.6 -0.3 -0.3 NA NA 0.1 0.0 NA	-0.6 -0.3 0.0 NA 0.2 0.0 NA
Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories) Minimum Score, S_{MIN} FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW		-0.7 -0.3 1.9 0.5 0.0 -0.4 0.7	-0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4 0.7	-0.6 -0.3 2.0 0.4 -0.4 -0.4 0.7	-0.4 -0.5 -0.3 1.0 0.3 -0.3 -0.3 0.5	-0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3	-0.5 -0.6 -0.3 1.1 0.4 -0.2 NA	-0.4 -0.2 1.5 0.3 -0.2 -0.3	-0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1	-0.7 -0.4 -0.1 1.4 0.2 -0.1	-0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3 0.3 ACTIO	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 -0.1 0.3 NREQU	-0.4 -0 -0.5 -0 -0.2 -0 1.5 1 0.3 0 -0.2 -0 NA -0 0.2 0	4 -0.4 4 -0.4 1 -0.2 7 1.6 2 0.3 1 -0.2 1 -0.2 2 0.3	-0.4 -0.2 1.6 0.3 -0.2 0.3	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0 0.2	NA NA 0.0 0.5 0.1 -0.1 NA	-0.6 -0.3 -0.3 NA NA 0.1 0.0 NA	-0.6 -0.3 0.0 NA NA 0.2 0.0 NA
Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories) Minimum Score, S_{MIN} FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW Exterior: \Box Partial \Box All Sides		-0.7 -0.3 1.9 0.5 0.0 -0.4 0.7	-0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4 0.7	-0.6 -0.3 2.0 0.4 -0.4 -0.4 0.7	-0.4 -0.5 -0.3 1.0 0.3 -0.3 0.5 R HAZ	-0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3 0.5	-0.5 -0.6 -0.3 1.1 0.4 -0.2 NA 0.5	-0.4 -0.2 1.5 0.3 -0.2 -0.3 0.5	-0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1	-0.7 -0.4 -0.4 -0.1 1.4 0.2 -0.1 -0.1 0.3	-0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3 0.3 ACTIO Detaile	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 -0.1 0.3 N REQU	-0.4 -0 -0.5 -0 -0.2 -0 1.5 1 0.3 0 -0.2 -0 NA -0 0.2 0 JIRED ural Eva	4 -0.4 4 -0.4 1 -0.2 7 1.6 2 0.3 1 -0.2 2 0.3 1 -0.2 2 0.3	-0.4 -0.4 -0.2 1.6 0.3 -0.2 -0.2 -0.2 0.3	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0 0.2	NA NA 0.0 0.5 0.1 -0.1 NA 1.0	-0.6 -0.3 -0.3 NA NA 0.1 0.0 NA	-0.6 -0.3 0.0 NA NA 0.2 0.0 NA
Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories) Minimum Score, S_{MIN} FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW Exterior: Partial All Sides Interior: None Visible	[-0.7 -0.3 1.9 0.5 0.0 -0.4 0.7	-0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4 0.7	-0.6 -0.3 2.0 0.4 -0.4 -0.4 0.7 OTHE Are Th Struct	-0.4 -0.5 -0.3 1.0 0.3 -0.3 -0.3 0.5 R HAZ	-0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3 0.5 ZARDS azards valuatio	-0.5 -0.6 -0.3 1.1 0.4 -0.2 NA 0.5 That Tr n?	-0.4 -0.2 1.5 0.3 -0.2 -0.3 0.5	-0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1 0.5	-0.7 -0.4 -0.4 -0.1 1.4 0.2 -0.1 -0.1 0.3	-0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3 0.3 ACTIO Detaile	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 -0.1 0.3 N REQU	-0.4 -0 -0.5 -0 -0.2 -0 1.5 1 0.3 0 -0.2 -0 NA -0 0.2 0	4 -0.4 4 -0.4 1 -0.2 7 1.6 2 0.3 1 -0.2 2 0.3 1 -0.2 2 0.3	-0.4 -0.4 -0.2 1.6 0.3 -0.2 -0.2 -0.2 0.3	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0 0.2	NA NA 0.0 0.5 0.1 -0.1 NA 1.0	-0.6 -0.3 -0.3 NA NA 0.1 0.0 NA	-0.6 -0.3 0.0 NA NA 0.2 0.0 NA
Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories) Minimum Score, S_{MIN} FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW Exterior: Partial All Sides Interior: None Visible Drawing Reviewd: Yes	[-0.7 -0.3 1.9 0.5 0.0 -0.4 0.7 Aeri Ente	-0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4 0.7	-0.6 -0.3 2.0 0.4 -0.4 -0.4 0.7 OTHE Are Th Struct	-0.4 -0.5 -0.3 1.0 0.3 -0.3 -0.3 0.5 R HAZ	-0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3 0.5 ZARDS azards valuatio	-0.5 -0.6 -0.3 1.1 0.4 -0.2 NA 0.5 That Tr n?	-0.4 -0.2 1.5 0.3 -0.2 -0.3 0.5	-0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1 0.5	-0.7 -0.4 -0.4 -0.1 1.4 0.2 -0.1 -0.1 0.3	-0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3 0.3 ACTIO Detaile □ Yes,	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 -0.1 0.3 N REQU	-0.4 -0 -0.5 -0 -0.2 -0 1.5 1 0.3 0 -0.2 -0 NA -0 0.2 0 JIRED ural Eva	4 -0.4 4 -0.4 1 -0.2 7 1.6 2 0.3 1 -0.2 1 -0.2 2 0.3 4 -0.2 2 0.3	-0.4 -0.4 -0.2 1.6 0.3 -0.2 -0.2 -0.2 0.3	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0 0.2	NA NA 0.0 0.5 0.1 -0.1 NA 1.0	-0.6 -0.3 -0.3 NA NA 0.1 0.0 NA	-0.6 -0.3 0.0 NA NA 0.2 0.0 NA
Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories) Minimum Score, S_{MIN} FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW Exterior: Partial All Sides Interior: None Visible Drawing Reviewd: Yes	[-0.7 -0.3 1.9 0.5 0.0 -0.4 0.7 Aeri Ente	-0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4 0.7	-0.6 -0.3 2.0 0.4 -0.4 -0.4 0.7 OTHE Are Th Struct	-0.4 -0.5 -0.3 1.0 0.3 -0.3 -0.3 -0.3 0.5 R HAZ nere Haunding	-0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3 0.5 ZARDS azards valuatio	-0.5 -0.6 -0.3 1.1 0.4 -0.2 NA 0.5 That Tr n?	-0.4 -0.2 1.5 0.3 -0.2 -0.3 0.5	-0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1 0.5	-0.7 -0.4 -0.4 -0.1 1.4 0.2 -0.1 -0.1 0.3	-0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3 0.3 ACTIO Detaile □ Yes, □ Yes,	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 -0.1 0.3 N REQU d Struct unknow score I	-0.4 -0 -0.5 -0 -0.2 -0 1.5 1 0.3 0 -0.2 -0 NA -0 0.2 0 JIRED ural Eva	4 -0.4 4 -0.4 1 -0.2 7 1.6 2 0.3 1 -0.2 1 -0.2 2 0.3 uation Reg type of cut-off	-0.4 -0.4 -0.2 1.6 0.3 -0.2 -0.2 -0.2 0.3	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0 0.2	NA NA 0.0 0.5 0.1 -0.1 NA 1.0	-0.6 -0.3 -0.3 NA NA 0.1 0.0 NA	-0.6 -0.3 0.0 NA NA 0.2 0.0 NA
Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories) Minimum Score, S_{MIN} FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW Exterior: Partial All Sides Interior: None Visible Drawing Reviewd: Yes	[[-0.7 -0.3 1.9 0.5 0.0 -0.4 0.7 -0.4 0.7 -0.4 0.7 -0.4 0.7	-0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4 0.7 ial ered	-0.6 -0.3 2.0 0.4 -0.4 -0.4 0.7 OTHE Are Th Struct □ Pou known	-0.4 -0.5 -0.3 1.0 0.3 -0.3 -0.3 0.5 R HAZ where Hi urral Evunding	-0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3 0.5 CARDS azards valuatio potenti	-0.5 -0.6 -0.3 1.1 0.4 -0.2 NA 0.5 That Tr n? al (Unle	-0.4 -0.2 1.5 0.3 -0.2 -0.3 0.5	-0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1 0.5	-0.7 -0.4 -0.4 -0.1 1.4 0.2 -0.1 -0.1 0.3	-0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3 0.3 0.3 ACTIO Detaile □ Yes, □ Yes,	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 -0.1 0.3 N REQU d Struct unknow score I other h	-0.4 -0 -0.5 -0 -0.2 -0 1.5 1 0.3 0 -0.2 -0 NA -0 0.2 0 JIRED ural Eva vn buildir ess than	4 -0.4 4 -0.4 1 -0.2 7 1.6 2 0.3 1 -0.2 1 -0.2 2 0.3 uation Re g type of cut-off resent	-0.4 -0.2 1.6 0.3 -0.2 -0.2 -0.2 0.3	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0 0.2	NA NA 0.0 0.5 0.1 -0.1 NA 1.0	-0.6 -0.3 -0.3 NA 0.1 0.0 NA 0.2	-0.6 -0.3 0.0 NA NA 0.2 0.0 NA
Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories) Minimum Score, S_{MIN} FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW Exterior: Partial All Sides Interior: None Visible Drawing Reviewd: Yes Soil Type Source: Soil Type Source	[-0.7 -0.3 1.9 0.5 0.0 -0.4 0.7 Aeri Ente No	-0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4 0.7 ial ered 	-0.6 -0.3 2.0 0.4 -0.4 -0.4 0.7 OTHE Are Th Struct □ Pou known	-0.4 -0.5 -0.3 1.0 0.3 -0.3 -0.3 -0.3 0.5 R HAZ where Hi urral Evunding	-0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3 0.5 CARDS azards valuatio potenti	-0.5 -0.6 -0.3 1.1 0.4 -0.2 NA 0.5 That Tr n? al (Unle	-0.4 -0.2 1.5 0.3 -0.2 -0.3 0.5	-0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1 0.5	-0.7 -0.4 -0.4 -0.1 1.4 0.2 -0.1 -0.1 0.3	-0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3 0.3 0.3 ACTIO Detaile □ Yes, □ Yes, Detaile	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 -0.1 0.3 N REQU d Struct unknow score I other h d Nonst	-0.4 -0 -0.5 -0 -0.2 -0 1.5 1 0.3 0 -0.2 -0 NA -0 0.2 0 JIRED ural Eva vn buildir ess than azards p	4 -0.4 4 -0.4 1 -0.2 7 1.6 2 0.3 1 -0.2 2 0.3 1 -0.2 2 0.3 4 4 -0.2 2 0.3 4 -0.2 2 0.3 -0.2 2 0.3 -0.2 -0.3 -0.2 -0.2 -0.3 -0.2 -0.3 -0.2 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.3 -0.2 -0.3 -0.2 -0.3 -0.3 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.3 -0.2 -0.3 -0.3 -0.2 -0.3	-0.4 -0.4 -0.2 1.6 0.3 -0.2 -0.2 -0.2 0.3	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0 0.2	NA NA 0.0 0.5 0.1 -0.1 NA 1.0	-0.6 -0.3 -0.3 NA 0.1 0.0 NA 0.2	-0.6 -0.3 0.0 NA NA 0.2 0.0 NA
Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories) Minimum Score, S_{MIN} FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW Exterior: Partial All Sides Interior: None Visible Drawing Reviewd: Yes Soil Type Source:]] 	-0.7 -0.3 1.9 0.5 0.0 -0.4 0.7 Aeri Ente No	-0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4 0.7 ial ered 	-0.6 -0.3 2.0 0.4 -0.4 0.7 OTHE Are Th Struct □ Pot knowr	-0.4 -0.5 -0.3 1.0 0.3 -0.3 -0.3 -0.3 0.5 R HA2 where Hi urral Evunding	-0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3 0.5 CARDS azards raluatio potenti	-0.5 -0.6 -0.3 1.1 0.4 -0.2 NA 0.5 That Tr n? al (Unle	-0.4 -0.2 1.5 0.3 -0.2 -0.3 0.5	-0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1 0.5	-0.7 -0.4 -0.4 -0.1 1.4 0.2 -0.1 -0.1 0.3	-0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3 0.3 ACTIO Detaile □ Yes, □ Yes, Detaile □ Yes, Detaile	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 -0.1 0.3 N REQU d Struct unknow score I other h d Nonst nonstru	-0.4 -0 -0.5 -0 -0.2 -0 1.5 1 0.3 0 -0.2 -0 NA -0 0.2 0 JIRED ural Eva vn buildir ess than azards p ructural	4 -0.4 4 -0.4 1 -0.2 7 1.6 2 0.3 1 -0.2 1 -0.2 2 0.3 1 -0.2 2 0.3 4 -0.2 1 -0.2 2 0.3 4 -0.2 1 -0.2 2 0.3 4 -0.4 -0.2 -0.3 -0.2 -0.2 -0.2 -0.3 -0.2 -0.3 -0.2 -0.2 -0.3 -0.2 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.3 -0.2 -0.3 -0	-0.4 -0.2 1.6 0.3 -0.2 -0.2 0.3 equired' r other b	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0 0.2	NA NA 0.0 0.5 0.1 -0.1 NA 1.0 ed?	-0.6 -0.3 -0.3 NA 0.1 0.0 NA 0.2	-0.6 -0.3 0.0 NA 0.2 0.0 NA 0.2
Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories) Minimum Score, S_{MIN} FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW Exterior: Partial Interior: None Visible Drawing Reviewd: Yes Soil Type Source: Geohazards Source:]] 	-0.7 -0.3 1.9 0.5 0.0 -0.4 0.7 Aeri Ente No	-0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4 0.7 ial ered 	-0.6 -0.3 2.0 0.4 -0.4 -0.4 0.7 OTHE Are Th Struct Pou knowr E Fall	-0.4 -0.5 -0.3 1.0 0.3 -0.3 -0.3 -0.3 0.5 R HA2 mere H. ural Ex unding)) ing ha	-0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3 0.5 2 ARDS azards valuatio potentii zards fr	-0.5 -0.6 -0.3 1.1 0.4 -0.2 NA 0.5 That Tr n? al (Unle	-0.4 -0.2 1.5 0.3 -0.2 -0.3 0.5	-0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1 0.5	-0.7 -0.4 -0.4 -0.1 1.4 0.2 -0.1 -0.1 0.3	-0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3 0.3 0.3 ACTIO Detaile U Yes, Detaile Ves, Detaile	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 -0.1 0.3 0.0	-0.4 -0 -0.5 -0 -0.2 -0 1.5 1 0.3 0 -0.2 -0 NA -0 0.2 0 JIRED ural Eva vn buildingess than azards p ructural had	4 -0.4 4 -0.4 1 -0.2 7 1.6 2 0.3 1 -0.2 1 -0.2 2 0.3 uation Re g type of cut-off resent valuation zard identified cards exist	-0.4 -0.4 -0.2 1.6 0.3 -0.2 -0.2 0.3 equired' r other b n Recorn ntified, s st that n	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0 0.2	NA NA 0.0 0.5 0.1 -0.1 NA 1.0 ed?	-0.6 -0.3 -0.3 NA 0.1 0.0 NA 0.2	-0.6 -0.3 0.0 NA 0.2 0.0 NA 0.2
Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories) Minimum Score, S_{MIN} FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW Exterior: Partial Partial All Sides Interior: None Urge Source: Yes Soil Type Source: Contact Person: LEVEL 2 SCREENING PERFORMED?]] 	-0.7 -0.3 1.9 0.5 0.0 -0.4 0.7 Aeri Ente No	-0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4 0.7 ial ered 	-0.6 -0.3 2.0 0.4 -0.4 0.7 OTHE Are Th Struct Pou knowr Fall Geo	-0.4 -0.5 -0.3 1.0 0.3 -0.3 -0.3 -0.3 0.5 R HA2 Normere H- urral EN- urral EN- urral EN- normer H- urral EN- Normer H- Normer -0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3 0.5 CARDS azards raluatio potentii zards fr	-0.5 -0.6 -0.3 1.1 0.4 -0.2 NA 0.5 That Tr n? al (Unle	-0.4 -0.2 1.5 0.3 -0.2 -0.3 0.5	-0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1 0.5 A Detaile 7 > Cut-f	-0.7 -0.4 -0.4 -0.1 1.4 0.2 -0.1 -0.1 0.3	-0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3 0.3 ACTIO Detaile Q Yes, Detaile Q Yes, Detaile Q Yes, a detail	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 -0.1 0.3 -0.1 0.4 -0.1 0.5 -0.1 0.6 -0.1 0.7 -0.1	-0.4 -0 -0.5 -0 -0.2 -0 1.5 1 0.3 0 -0.2 -0 NA -0 0.2 0 NA -0 0.2 0 JIRED ural Eva vn buildir ess than azards p ructural has ctural has ctural has	4 -0.4 4 -0.4 1 -0.2 7 1.6 2 0.3 1 -0.2 1 -0.2 1 -0.2 1 -0.2 2 0.3 uation Rd g type of cut-off cut-off resent evaluation zard identication zards existent existent	-0.4 -0.2 1.6 0.3 -0.2 0.3 -0.2 0.3 -0.2 0.3 -0.2 0.3 -0.2 0.3 -0.2 0.3 order onservice n Recorder ntified, soft that not	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0 0.2	NA NA 0.0 0.5 0.1 -0.1 NA 1.0 ed?	-0.6 -0.3 -0.3 NA 0.1 0.0 NA 0.2	-0.6 -0.3 0.0 NA 0.2 0.0 NA 0.2	

Rapid Visual Screening of Buildings for Potential Seismic Hazards (Adopted from FEMA P-154 Data Collection Form)

LEVEL 2 (Optional) VERY HIGH Seismicity

		o be performed by a civil or		professional, architect, or graduate student with background in seis	smic evalu	lation or d			
Building Nar Screener	ne :			Level 1 Score: $S_{II} =$		Dia		not co	nsider S _{MIN})
Date/ Time	:		ADJUST	<i>ity Modifiers:</i> Vertical Irregularity, $V_{11} =$ ED BASELINE $S' = (S_{11} - V_{11} - P_{11}) =$		Pla	n Irregularity, P ₁₁ =		
		S TO ADD TO ADJUS							
Topic				true, circle "Yes" modifier; otherwise cross out th	e modi	fier)		Yes	Subtotals
Vertical			-	y grade change from one side of the building to the o		,		-0.9	Gubtotalo
	Sloping Site			story grade change from one side of the building to the				-0.2	
Irregularity,	Weak			cripple wall is visible in the crawl space.				-0.5	
V _{L2}	and/or Soft			n occupied story, there is a garage opening without a	steel m	oment fr	ame, and there is		
	Story (Circle one	less than 8 ft of wall	on the same line (fo	or multiple occupied floors above, use 16 ft of wall mir	nimum)			-0.9	
	(oncie one maximum)			penings at the ground story (such as for parking) over		50 % 0	the length of the		
					ariodo		and longar of the	-0.9	
		building.		and at any start is less than 50 0/ of that at start, show		:		0.0	
				em at any story is less than 50 % of that at story abov	ve or ne	ignt of a	ny story is more	-0.7	
		than 2.0 times the he						-0.7	
		Non-W1 Building : Le	ength of lateral syst	em at any story is between 50 % and 75 % of that at	story ab	ove or h	eight of any story is		
		between 1.3 and 2.0	times the height of	the story above.				-0.4	
	Setback	Vertical elements of	the lateral system a	at an upper story are outboard of those at the story be	low cau	sing the	diaphragm to		
		cantilever at the offse	et.					-0.7	
		Vertical elements of	the lateral system a	at upper stories are inboard of those at lower stories.				-0.4	
	Short			elements that is greater than the length of the element				-0.2	
	Column/			t 20 % of columns (or piers) along a column line in the	e lateral	system	have height/depth		
	Pier			ght/depth ratio at that level.				-0.4	
		C1,C2,C3,PC1,PC2,	RM1,RM2 : The co	umn depth (or pier width) is less than one half of the	depth of	f the spa	ndrel, or there are		
		infill walls or adjacen	t floors that shorter	the column.				-0.4	
	Split Level	There is a split level						-0.4	V
	Other Irregularity			ical irregularity that obviously affects the building's se			ce.		V _{L2} = (Cap at -0.9)
Plan				retrical irregularity that may affect the building's seism relatively well distributed in plan in either or both dire			ncludo tho W1A	-0.4	(Cap at =0.9)
				relatively well distributed in plan in entier of both dire				-0.5	
Irregularity,		egularity listed above)					ul	-0.2	
P _{<i>L</i>2}		•	· · · · · ·	rtical elements of the lateral system that are not ortho	-		tner.	-0.2	
				rner exceed 25 % of the overall plan dimensions in th ragm with a width over 50 % of the total diaphragm w			1	-0.2	
				ams do not align with the columns in plan.	indir at t	inat love	•	-0.2	P _{L2} =
				regularity that obviously affects the building's seismic	perform	ance.		-0.5	(Cap at -0.7)
Redundancy	The building	has at least two bays	of lateral elements	on each side of the building in each direction.				0.2	
Pounding	Building is se	parated from an adja	cent structure by	The floors do not align vertically within 2 feet.			(Cap total	-0.7	1
	less than 1.5	% of the height of the	e shorter of the	One building is 2 or more stories taller than the other			pounding modifiers	-0.7	
	building and	adjacent structure and	d:	The building is at the end of the block.			at -0.9)	-0.4	
S2 Building		eometry is visible.						-0.7	
C1 Building	Flat plate ser	ves as the beam in th	e moment frame.					-0.3	
PC1/RM1	There are roo	of-to-wall ties that are	visible or known fro	om drawings that do not rely on cross-grain bending. (Do not	combine	with post-		
Building	benchmark o	r retrofit modifier)						0.2	
			ull height interior wa	alls (rather than an interior space with few walls such a	as in a v	varehou	se)	0.2	
URM	Gable walls a		raging system prov	ided between the carriage and the ground.				-0.3	
MH Retrofit		ive seismic retrofit is						0.5	M =
		$S_{L2} = (S' + V_{L2} + P_{L2})$					(Transfer		vel 1 Form)
				at negatively affects the building's seismic performance	ce: 🗆 Y	′es □ N	•		,
If yes, describ	e the condition	n in the comment boy	k below and indicat	e on the Level 1 form that detailed evaluation is requir	ed inde	pendent	of the building's sco	e.	
OBSERVABL	E NONSTRU	CTURAL HAZARDS							
Location	Statement (0	Check "Yes" or "No")			Yes No	Comn	nents	
Exterior				or unbraced unreinforced masonry chimney.					
		y cladding or heavy v		walkways that appears inadequately supported.					
			-	it doors or pedestrian walkways.					
		-		azardous materials are present.					
			-	URM wall or unbraced URM parapet or chimney.					
		ed exterior nonstructu	÷						
Interior		llow clay tile or brick p	-	ir or exit corridor.					
Estimated M		ed interior nonstructu Seismic Performanc	-	ate box and transfer to Level 1 form conslusions)			<u> </u>		
		ctural hazards with sig			valuatio	n recom	mended		
		ards identified with sig							
		ictural hazard threat t	-				-		
Comments :									

(Adopted from FEMA P-154 Data Collection Form)

(Adopted from FEMA P-154 Data Colle	ection F	-orm)				1	اء ۵								<u></u>				eismi	icity
PHOTOGRAPH															•					
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						Bu	-													
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									round:											
							Floor A	rea (s	-											
						Add	itions:		□ Non	е	□ Yes	, Years	Built:							
						Occup	bancy:		□ Asse	embly	□ Con	nmerci	al	🗆 Eme	ergency	y Servi	ces	□ His	toric	
									🗆 Indu	strial	□ Offi	се		C Scho	ools			□ Go	vernme	ent
									□ Utilit	y	□ Wa	rehous	e	🗆 Resi	identia	I,#Unit	s:	□ She	elter	
						Soil T	ype:		□ A: H	ard Ro	ock		□ C: S	Soft Roo	ck			□ E: \$	Soft So	il
SKETCH									□ B: N	ormal	Rock		🗆 D: H	lard So	il / DNI	К		□ F: F	Poor Sc	oil
						Geoha	azards			Liquef	action:		□ Yes	, □ No,	, 🗆 DN	IK				
										Lan	dslide:		□ Yes	, □ No,	, 🗆 DN	IK				
									Sur	face R	upture:		□ Yes	, □ No,	, 🗆 DN	IK				
						Adjac	ency:		🗆 Pou	nding			🗆 Falli	ng Haz	ards fr	rom Ta	ller Ad	jacent	Buildin	g
						Irregu	larities	:	□ Sev	ere Ve	rtical Irr	egulari	ty		🗆 Plar	n Irregu	ularity			
										erate \	/ertical	Irregul	arity							
									🗆 Unb	raced (Chimne	ys	🗆 Hea	vy Clac	dding o	or Heav	vy Vene	er		
				(Exteri Hazar	or Fall ds:	ing	Para	apets			🗆 Арр	endage	es					
	+			(nazar	u 3 .		□ Othe	er:										
	7 7 I I			 		COMN	IENTS													
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	<u> </u>																			
	1 1			[
				(□ Add	litional	sketch	es or co	mment	is on se	parate	page							
			BAS	IC SC	ORE, I	MODIF	IERS, A	AND FI	NAL LE	VEL 1	SCOR	E, S _{L1}								
BUILDING TYPE	DNK	W1	W1A	W2	S1	S2	S3	S4	S5	C1	C2	C3	PC1	PC2	RM1	RM2	URM	MH	BN1	BN2
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	1.0	1.4
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	-0.7	-0.8
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	-0.4	-0.5
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	-0.4	-0.5
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	NA	NA
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	NA	NA
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	0.3	0.9
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	-0.2	-0.6
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	NA	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	0.2	0.2
FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$	-				-				-									-	-	
EXTENT OF REVIEW				OTHE	R HAZ	ARDS					ACTIC	N REC	UIRED)						
Exterior:		□ Aer	ial	Are TI	here H	azards	That T	rigger A	A Detaile	ed	Detaile	ed Stru	ctural E	valuati	on Red	quired?	?			
Interior: 🗆 None 🗆 Visible		🗆 Ent	ered	Struct	ural Ev	/aluatio	n?				D Yes	, unkn	own bui	Iding ty	/pe or o	other b	uilding			
Drawing Reviewd:		□ No		D Pou	unding	potenti	al (Unle	ess S _L	₁ > Cut-	off, if	□ Yes	, score	less th	an cut-	-off		-			
Soil Type Source:				knowr				_			□ Yes	, other	hazard	s prese	ent				□ No	
Geohazards Source:													structur	-		Recon	nmend	ed?		
Contact Person:				∣⊡ Fal	ling ha	zards fi	rom tall	er adja	icent bu	Ilding	D Yes	, nons	ructura	l hazar	d ident	tified. s	hould	be eva	luated	
LEVEL 2 SCREENING PERFORMED				Ge Ge	ologic	hazards	s or Soi	il Type	F										itigatior	n, but
\Box Yes, Final Level 2 Score, S ₁₂ :	□ No				Ũ				on to the	•			aluation				,			, ~u.
Nonstructural Hazards?				struct			30,0010						nstructu				d			к
							the fall	wina	F9T - 4	Stimat										• •
Where information	i canno	n ne ve	ennea,	screer	ier sha	n note i	une tollo	wing:	⊂31 = E	sumat	eu or ul	ireilabi	e uata	ι <i>υκ)</i> D	$v_1 v_1 r_1 = L$	NOt טכ	NOW			

(Adopted from FEMA P-154 Data Collection Form)

Building Nar	ne :		Final	Level 1 Score: S ₁₁ =				not cor	nsider S_M
creener Date/ Time	:		Level 1 Irregula	arity Modifiers: Vertica TED BASELINE S' = (S	I Irregularity, $V_{I1} =$	PI	an Irregularity, P11 =		
		S TO ADD TO ADJUS			$(1 - V_{11} - P_{11}) =$				
Topic					lifier; otherwise cross out	the modifier)		Yes	Subtota
Vertical			•		ne side of the building to the	,		-1.2	
rregularity,	Sloping Site				m one side of the building to			-0.3	
	Weak	W1 Building Cripple \	Vall : An unbraced	d cripple wall is visible ir	the crawl space.			-0.6	
V _{<i>L</i>2}	and/or Soft Story	W1 House over Gara	ge : Underneath a	n occupied story, there	is a garage opening without	a steel moment i	frame, and there is		
	(Circle one	less than 8 ft of wall o	on the same line (f	or multiple occupied flo	ors above, use 16 ft of wall r	ninimum)		-1.2	
	maximum)	W1A Building Open F	Front : There are o	penings at the ground s	tory (such as for parking) ov	er at least 50 %	of the length of the		
		building.						-1.2	
		Non-W1 Building : Le	ngth of lateral sys	tem at any story is less	than 50 % of that at story at	ove or height of	any story is more		
		than 2.0 times the he	ight of the story at	oove.				-0.9	
					een 50 % and 75 % of that a	at story above or	height of any story is		
		between 1.3 and 2.0				,	0 , ,	-0.5	
	Setback			,	tboard of those at the story	below causing the	e diaphragm to		
		cantilever at the offse	-				o diapinagin to	-1.0	
				at upper stories are inho	ard of those at lower stories			-0.5	
			· · · · · · · · · · · · · · · · · · ·		r than the length of the elem			-0.3	
	Short				iers) along a column line in		n have height/depth		
	Column/	ratios less than 50 %	of the nominal he	ight/depth ratio at that le	evel.			-0.5	
	Pier			<u> </u>	h) is less than one half of th	e depth of the sp	andrel, or there are		
		infill walls or adjacent			,			-0.5	
	Split Level	There is a split level a						-0.5	
	Other				iously affects the building's	seismic performa	ance.	-1.0	V _{L2} =
	Irregularity	There is another obse	ervable moderate	vertical irregularity that i	nay affect the building's seis	mic performance	Э.	-0.5	(Cap at -1.
Plan	Torsional Irre	gularity: Lateral syste	m does not appea	r relatively well distribut	ed in plan in either or both d	rections. (Do not	include the W1A	-0.7	
rregularity,	open front irr	egularity listed above)						0.7	
P_{L2}	Non-parallel	System: There are one	e or more major ve	ertical elements of the la	teral system that are not ort	hogonal to each	other.	-0.4	
					e overall plan dimensions in			-0.4	
		· · · ·		-	50 % of the total diaphragm	width at that lev	el.	-0.2	P _{L2} =
		-		eams do not align with the	e columns in plan.	ia norformanaa			P _{L2} = (Cap at -1.
edundancy	, and the second s			s on each side of the bu	ě	ic periormance.		0.3	(oup ut 7.
Pounding	ě.	eparated from an adjac		The floors do not align			(Cap total	-1	
5	-	% of the height of the	-	One building is 2 or me	ore stories taller than the oth	er.	pounding modifiers	-1	
				The building is at the e			-	-0.5	
2 Building		adjacent structure and eometry is visible.					at -0.9)	-1	
1 Building		ves as the beam in the	e moment frame.					-0.4	
C1/ RM1	There are roo	of-to-wall ties that are	visible or known fr	om drawings that do no	rely on cross-grain bending	. (Do not combin	e with post-		
Building	benchmark o	r retrofit modifier)						0.3	
0		,	II height interior w	alls (rather than an inter	ior space with few walls suc	h as in a wareho	use)	0.3	
IRM	Gable walls a							-0.4	
1H Letrofit		pplemental seismic br	° , .	vided between the carrie	ge and the ground.			1.2 1.4	M =
		$S_{L2} = (S' + V_{L2} + P_{L2})$		Jin drawings.			(Transfer		
				at negatively affects the	building's seismic performa	ance: □Yes□N	•	10 201	
	•			. .	at detailed evaluation is req			re.	
BSERVABL	E NONSTRU	CTURAL HAZARDS							
ocation	Statement (Check "Yes" or "No")	1			Yes No	o Comr	nents	
xterior			<i>·</i> · · ·	or unbraced unreinforce	d masonry chimney.				
		vy cladding or heavy v		n walkwaya that appear	s inadequately supported.		_		
				xit doors or pedestrian v					
		-		nazardous materials are	-		1		
	There is a ta	ler adjacent buidling w	vith an unanchored		URM parapet or chimney.				
-		ed exterior nonstructu	<u> </u>						
iterior		llow clay tile or brick p		air or exit corridor.					
stimated M		ed interior nonstructur	-	ate hox and transfor to	Level 1 form conslusions)				
		ctural hazards with sig			> Detailed Nonstructural	Evaluation recor	mmended		
		ards identified with sig			> But no Detailed Nonstructural				
		ictural hazard threat to			> No Detailed Nonstruct				

(Adopted from FEMA P-154 Data Collection Form)

LEVEL 1 MODERATELY HIGH Seismicity

(Adopted from FEMA P-154 Data Colle	ection F	-orm)											INC	DE	KAI	ELY	HIG	H Se	ismi	city
PHOTOGRAPH							Ad	dress:							City:					
							Otl	ner ID:							Use:					
						Bu	ilding	Name:												
							La	titude:							S _s :					
							Long	jitude:							S₁:					
							Scr	eener:							Date/	Time:				
						#Stori	es - Ab	ove Gr	ound:		Below	Ground	l:		Year E	Built:		□ Est		
						Total I	Floor A	vrea (st	it):						Code	Year: .				
						Add	itions:		□ Non	е	□ Yes	, Years	Built:							
						Occup	ancy:		□ Asse	embly	□ Corr	nmercia	al [⊐ Eme	ergenc	y Servi	ces	Hist	oric	
									🗆 Indu	strial	□ Offic	ce	[⊐ Sch	ools			□ Go\	ernme	nt
									□ Utilit	у	□ War	ehouse	e [⊐ Res	identia	l,#Unit	s:	□ She	lter	
						Soil T	ype:		🗆 A: H	ard Ro	ck	1	🗆 C: S	oft Roo	ck			🗆 E: S	Soft Soi	il
SKETCH									🗆 B: N	ormal I	Rock	I	🗆 D: H	ard So	oil / DN	к		🗆 F: F	oor So	oil
	1					Geoha	azards:			Liquef	action:	[□ Yes,	□ No	, 🗆 DN	IK				
	1										dslide:		□ Yes,							
•	i								Sur	face Ri			□ Yes,							
	<u> </u>					Adjace	encv:						□ Fallir		,		ller Adi	acent I	Building	q
	<u> </u>					-	larities			-	tical Irre			-		n Irregu				5
· L L L L L L						J					/ertical	· ·	•							
	1 1 1 1										Chimney	-	□ Hea\	v Clad	ddina c	or Heav	v Vene	er		
	1 1			() 			or Falli	ing						-	-		,			
						Hazar	ds:			•				mage						
						COMM	IENTS			71.										
						COMIN														
•																				
· ·																				
	1																			
			DAG						es or co NAL LE				page							
	DNK	W1	W1A	W2	S1	S2	S3	S4	S5	C1	C2		PC1	PC2	RM1	RM2	URM	MH	BN1	BN2
BUILDING TYPE	DINK					-														
Basic Score	\vdash	4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0 -0.9	1.7	2.1	1.4	1.8	1.5	1.8	1.8	1.2	2.2	1.2	2.2
Severe Vertical Irregularity, V_{L1}	\vdash	-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0 -0.6	-0.9	-1.0	-1.1	-0.8	-1.0		-1.0	-1.0	-0.8	NA NA	-0.8	
Moderate Vertical Irregularity, V_{L1}	\vdash	-0.8	-0.8	-0.8	-0.7	-0.6	-0.8 -1.0		-0.6	-0.6	-0.6		-0.6	-0.6 -0.7	-0.6 -0.7	-0.6 -0.7	-0.5		-0.5	-0.6
Plan Irregularity, P _{L1}	\vdash	-1.3	-1.2	-1.1	-0.9	-0.8		-0.8			-0.9	-0.6	-0.8				-0.5	NA	-0.5	-0.8
Pre-Code	$\left -\right $	-0.8	-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1	-0.3	NA	NA
Post-Benchmark	$\left - \right $	1.5	1.9	2.3	1.4	1.4	1.0	1.9	NA	1.9	2.1	NA	2.1	2.4	2.1	2.1	NA	1.2	NA	NA 1.0
Soil Type A or B		0.3	0.6	0.9	0.6	0.9	0.3	0.9	0.9	0.6	0.8	0.7	0.9	0.7	0.8	0.8	0.6	0.9	0.6	1.0
Soil Type E (1-3 stories)	$\left - \right $	0.0	-0.1	-0.3	-0.4	-0.5	0.0	-0.4	-0.5	-0.2	-0.2	-0.4	-0.5	-0.3	-0.4	-0.4	-0.3	-0.5	-0.3	-1.2
Soil Type E (>3 stories)		-0.5	-0.8	-1.2	-0.7	-0.7	NA	-0.7	-0.6	-0.6	-0.8	-0.4	NA	-0.5	-0.6	-0.7	-0.3	NA 1.4	NA 0.2	NA
Minimum Score, S _{MIN}		1.6	1.2	0.8	0.5	0.5	0.9	0.5	0.5	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4	0.2	0.5
FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$				071	D	74000					40710	NDEC								
		— .				ZARDS	T L . · T										, ,			
Exterior: Partial All Sides		□ Aer						ngger A	A Detaile	a		d Struc				-				
Interior:		Ent	ered			valuatio		~				, unkno				otner b	uiiding			
Drawing Reviewd:		□ No				potenti	aı (Unle	ess S_L	$_{1}$ > Cut-	ott, if	□ Yes								— • /	
Soil Type Source:				known)							, other l		•				. 10	□ No	
Geohazards Source:				🗆 Fall	ing ha	azards fi	rom tall	er adja	cent bui	ilding		d Nons								
Contact Person:												, nonstr								
LEVEL 2 SCREENING PERFORMED					0	hazards					D No,	nonstru	ictural I	hazard	ls exist	t that m	nay req	uire mi	tigation	n, but
\Box Yes, Final Level 2 Score, S _{L2} :	□ No			-			ge/dete	erioratio	on to the			led eva				-				
Nonstructural Hazards?	□ Yes			structu								no non								ĸ
Where information	n canno	t be ve	erified,	screen	er sha	all note t	the follo	owing: I	EST = E	stimat	ed or ur	nreliable	e data ('OR) D	NK = I	Do Not	Know			

(Adopted from FEMA P-154 Data Collection Form)

LEVEL 2 (Optional) MODERATELY HIGH Seismicity

Building Nan	ne :			Level 1 Score: S ₁₁ =				not co	nsider S₁
Screener	:		Level 1 Irregula	The second secon		Plan	Irregularity, $P_{II} =$		
Date/ Time	:			ED BASELINE $S' = (S_{1,1} - V_{1,1} - P_{1,1}) =$					
	L MODIFIER	S TO ADD TO ADJU			ha madifiar)			Vee	Cubic
Торіс				true, circle "Yes" modifier; otherwise cross out t	· · · · · · · · · · · · · · · · · · ·			Yes	Subtota
Vertical	Sloping Site	-		y grade change from one side of the building to the				-1.3 -0.3	
Irregularity,	Weak	-		story grade change from one side of the building to	the other.			-0.3	
V_{L2}	and/or Soft			cripple wall is visible in the crawl space.		4 6		-0.0	
	Story	W1 House over Gar	age : Underneath a	n occupied story, there is a garage opening without a	a steel momer	nt fra	me, and there is		
	(Circle one	less than 8 ft of wall	on the same line (for	or multiple occupied floors above, use 16 ft of wall m	inimum)			-1.3	
	maximum)	W1A Building Open	Front : There are of	penings at the ground story (such as for parking) over	er at least 50 %	% of	the length of the		
		building.						-1.3	
		Non-W1 Building : L	ength of lateral syst	em at any story is less than 50 % of that at story abo	ove or height o	of an	y story is more		1
		than 2.0 times the h			0			-1	
				em at any story is between 50 % and 75 % of that a		or ho	ight of any stany is		
		-			I Slory above (Jine	ight of any story is	0.5	
	0 // /	between 1.3 and 2.0	times the height of	the story above.				-0.5	
	Setback	Vertical elements of	the lateral system a	at an upper story are outboard of those at the story b	elow causing	the c	liaphragm to		
		cantilever at the offs	et.					-1	
		Vertical elements of	the lateral system a	at upper stories are inboard of those at lower stories.				-0.5	
		There is an in-plane	offset of the lateral	elements that is greater than the length of the eleme	ents.			-0.3	
	Short	C1,C2,C3,PC1,PC2	,RM1,RM2 : At leas	t 20 % of columns (or piers) along a column line in th	ne lateral syste	em h	ave height/depth		
	Column/ Pier	ratios less than 50 %	6 of the nominal hei	ght/depth ratio at that level.				-0.5	
	1 101	C1.C2.C3.PC1.PC2	.RM1.RM2 : The co	lumn depth (or pier width) is less than one half of the	e depth of the	span	drel. or there are		
		infill walls or adjacer		,			,	-0.5	
	Split Level	•						-0.5	
	Other	There is a split level		ical irregularity that obviously affects the building's s	oiomio porforr				$V_{L2} =$
	Irregularity			rertical irregularity that may affect the building's seisi			e		(Cap at -1
Plan				relatively well distributed in plan in either or both dir			clude the W1A		
								-0.8	
Irregularity,	· ·	egularity listed above						-0.4	
P_{L2}			· · · · · ·	rtical elements of the lateral system that are not orth		h otr	ner.	-0.4	
		· · · ·		orner exceed 25 % of the overall plan dimensions in				-0.4	
			· · · · · · · · · · · · · · · · · · ·	aragm with a width over 50 % of the total diaphragm	width at that ie	evei.			P ₁₂ =
		- v · ·		ams do not align with the columns in plan.					г _{L2} — (Cap at -1
Redundancy	-	•		regularity that obviously affects the building's seismin	c performance			0.3	
Pounding		parated from an adja		on each side of the building in each direction. The floors do not align vertically within 2 feet.			(Cap total	-1	
0	Ű		-					-1	
	less than 1.5	% of the height of th	e shorter of the	One building is 2 or more stories taller than the other	er.		pounding modifiers	-	
		adjacent structure an	d:	The building is at the end of the block.			at -0.9)	-0.5	
2 Building		eometry is visible.						-1	
1 Building	Flat plate ser	ves as the beam in t	he moment frame.					-0.5	
PC1/ RM1	There are roo	of-to-wall ties that are	visible or known fro	om drawings that do not rely on cross-grain bending.	(Do not comb	ine v	with post-		
uilding	benchmark c	r retrofit modifier)						0.3	
-	The building	has closely spaced, I	full height interior wa	alls (rather than an interior space with few walls such	as in a wareh	nous	e)	0.3	1
JRM	Gable walls a	are present.						-0.4	
ΛH				ided between the carriage and the ground.				1.2	
letrofit		ive seismic retrofit is		m drawings.					M =
		$S_{L2} = (S' + V_{L2} + P_{L2})$					(Transfer	to Le	vel 1 For
				at negatively affects the building's seismic performan					
yes, describ	e the condition	n in the comment bo	x below and indicate	e on the Level 1 form that detailed evaluation is requ	ired independ	ent c	of the building's scor	e.	
BSERVABL	E NONSTRU	CTURAL HAZARDS							
ocation		Check "Yes" or "No	<i>i</i>		Yes	No	Comn	nents	
xterior				or unbraced unreinforced masonry chimney.					
		vy cladding or heavy		wellow that any series in the second state of					
			-	walkways that appears inadequately supported.					
		· · · · ·		it doors or pedestrian walkways. azardous materials are present.					
		<i>,</i> ,	0	URM wall or unbraced URM parapet or chimney.					
		ed exterior nonstruct							
nterior		llow clay tile or brick	•	ir or exit corridor.					
nonul		ed interior nonstructu							
stimated No			ų.	ate box and transfer to Level 1 form conslusions)	ļ ļ				
		ctural hazards with si		-	Evaluation rec	omn	nended.		
			-						
	structural haz	ards identified with s	ignificant threat to o	ccupant life safety> But no Detailed Nonstru		uon			
🗆 Non	structural haz	ards identified with s	-				•		

(Adopted from FEMA P-154 Data Collection Form)

LEVEL 1 MODERATE Seismicity

(Adopted from FEMA P-154 Data Collection Form)				Juc								RAT			
PHOTOGRAPH										·					
															••••
		Bu													
										3					
			-												
		#Stori	es - Ab	ove Gr			Below Grou								
			-loor A	rea (sf	7										
		Addi	tions:		□ None	[□ Yes, Yea	rs Built:							
		Occup	ancy:		□ Assem	nbly [Commer	cial	🗆 Eme	ergency	y Servi		Hist		
					□ Indust	rial [□ Office		□ Sch	ools			□ Go\	ernmer	nt
					□ Utility		□ Warehou			identia	I,#Unit	s:	□ She		
		Soil Ty	ype:		□ A: Har	d Roc	k	□ C: \$	Soft Ro	ck			□ E: \$	Soft Soil	
SKETCH					B: Nor	mal R	ock	🗆 D: I	Hard Sc	oil / DNI	K		🗆 F: F	oor Soi	il
		Geoha	zards:		Li	iquefa	ction:	□ Yes	s, □ No	, □ DN	IK				
						Land	slide:	□ Yes	s, □ No	, □ DN	IK				
					Surfac	ce Rup	pture:		s, □ No						
		Adjace	ency:		Pound	ling		□ Fall	ing Haz	zards fr	om Ta	ller Adj	acent I	Building	I
		Irregu	larities		□ Severe	e Verti	ical Irregula	rity		□ Plar	n Irregu	larity			
					□ Moder	ate Ve	ertical Irreg	-							
		Fytoria	or Falli	na	□ Unbra		himneys		avy Clao	Ŭ	r Heav	y Vene	er		
		Hazaro		iig	□ Parape	ets		🗆 App	endage	es					
					□ Other:										
		COMN	IENTS												
		□ Add	itional s	sketche	es or com	ments	on separa	e page							
BASIC	SCORE,	MODIFI	ERS, A	ND FI	NAL LEVI	EL 1 S	SCORE, S	1							
BUILDING TYPE DNK W1 W1A	W2 S1	S2	S3	S4	S5	C1	C2 C3	PC1	PC2	RM1	RM2	URM	MH	BN1	BN2
	3.8 2.7	2.6	3.5	2.5	2.7	2.1	2.5 2.0	2.1	1.9	2.1	2.1	1.7	2.9	1.7	3.2
Severe Vertical Irregularity, V _{L1} -1.4 -1.4 -	-1.4 -1.2	-1.2	-1.4	-1.1	-1.2 -	.1.1	-1.2 -1.0	-1.1	-1.0	-1.1	-1.1	-1.0	NA	-1.0	-0.9
Moderate Vertical Irregularity, V _{L1} -0.9 -0.9	-0.9 -0.8	-0.7	-0.9	-0.7	-0.7 -	-0.7	-0.7 -0.6		-0.6	-0.7	-0.7	-0.6	NA	-0.6	-0.6
Plan Irregularity, P _{L1} -1.4 -1.3 -	-1.2 -1.0	-0.9	-1.2	-0.9	-0.9 -	-0.8	-1.0 -0.8	_	-0.8	-0.8	-0.8	-0.7	NA	-0.7	-0.8
	-0.6 -0.3	-0.2	-0.2	-0.3		-0.3	-0.4 -0.3	_	-0.2	-0.2	-0.2	-0.1	-0.5	NA	NA
	2.5 1.5	1.5	0.8	2.1	NA	2.0	2.3 NA	2.1	2.5	2.3	2.3	NA	1.2	NA	NA
	1.8 1.1	1.4	0.6	1.5		1.1	1.5 1.3	1.6	1.3	1.4	1.4	1.3	1.6	1.3	0.8
	-1.4 -0.9	-0.9	-1.0	-0.9		0.7	-1.0 -0.7		-0.7	-0.8	-0.8	-0.6	-0.9	-0.6	-1.1
Soil Type E (>3 stories) -1.8 -1.6 -	-1.3 -0.9	-0.9	NA	-0.9		-0.8	-1.0 -0.8		-0.7	-0.7	-0.8	-0.6	NA	NA	NA
	0.9 0.6	0.6	0.8	0.6	0.6	0.3	0.3 0.3	0.3	0.2	0.3	0.3	0.2	1.5	0.2	0.8
FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$															
FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEWO	THER HAZ						ACTION R								
FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW O Exterior: \Box Partial \Box All Sides \Box Aerial A			That Tri	igger A	Detailed		ACTION R			ion Rec	quired?	,			
FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW O Exterior: \Box Partial \Box All Sides \Box Aerial A Interior: \Box None \Box Visible \Box Entered S	THER HAZ	azards [·] valuatio	n?			((Detailed St □ Yes, unk	ructural I nown bu	∃valuati iilding ty	ype or o	-				
FINAL LEVEL 1 SCORE, S _{L1} ≥ S _{MIN} O EXTENT OF REVIEW O Exterior: □ Partial □ All Sides □ Aerial A Interior: □ None □ Visible □ Entered S Drawing Reviewd: □ Yes □ No □	THER HAZ	azards [·] valuatio	n?			[f, if	Detailed St □ Yes, unk □ Yes, sco	ructural I nown bu re less tl	Evaluati iilding ty han cut	ype or o -off	-				
FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW O Exterior: Partial All Sides Aerial A Interior: None Visible Entered S Drawing Reviewd: Yes No C Soil Type Source: Kit Kit Kit	THER HAZ	azards [·] valuatio	n?			[f, if [Detailed St □ Yes, unk □ Yes, sco □ Yes, oth	ructural I nown bu re less tl er hazaro	Evaluati ilding ty han cut ds prese	ype or o -off ent	other b	uilding		□ No	
FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW O Exterior: Partial All Sides Aerial A Interior: None Visible Entered S Drawing Reviewd: Yes No C Soil Type Source: Ki Geohazards Source: C	THER HAZ The There H tructural Ev Pounding	azards valuation potentia	n? al (Unle	ess S _L	₁ > Cut-of	۲ f, if ۲	Detailed St □ Yes, unk □ Yes, sco	ructural I nown bu re less tl er hazaro	Evaluati ilding ty han cut ds prese	ype or o -off ent	other b	uilding		□ No	
FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW O Exterior: Partial All Sides Aerial A Interior: None Visible Entered S Drawing Reviewd: Yes No Interior Soil Type Source: Kit	THER HAZ There H There H Tructural Ev Pounding nown)	azards valuation potentia	n? al (Unle	ess S _L	₁ > Cut-of	۲ f, if נ ing	Detailed St □ Yes, unk □ Yes, sco □ Yes, oth	ructural I nown bu re less ti er hazaro nstructu	Evaluati ilding ty han cut ds prese ral Eva	ype or o -off ent luation	other b Recon	uilding nmend	ed?		
FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW O Exterior: Partial All Sides Aerial A Interior: None Visible Entered S Drawing Reviewd: Yes No Soil Type Source: ki Geohazards Source: Contact Person: C	THER HAZ There H There H Tructural Ev Pounding nown)	azards valuation potentia zards fr	n? al (Unle rom talle	ess S_L er adja	, > Cut-of	(f, if (ing	Detailed St □ Yes, unk □ Yes, sco □ Yes, oth Detailed No	ructural I nown bu re less tl er hazaro nstructu structura	Evaluati iilding ty han cut ds prese ral Eva al hazar	ype or o -off ent luation rd ident	other b Recon	uilding nmend hould l	ed? be eval	uated	, but
FINAL LEVEL 1 SCORE, S _{L1} ≥ S _{MIN} EXTENT OF REVIEW O Exterior: □ Partial □ All Sides □ Aerial A Interior: □ None □ Visible □ Entered S Drawing Reviewd: □ Yes □ No □ Soil Type Source: … K Geohazards Source: … □ LEVEL 2 SCREENING PERFORMED? □	DTHER HAZ are There H tructural Ev Dounding nown) Falling ha	azards valuation potentia zards fr hazards	n? al (Unle rom talle s or Soil	ers S _L . er adja Type	₁ > Cut-of cent build F	[f, if [[ing [[Detailed St Yes, unk Yes, scc Yes, oth Detailed No Yes, nor	ructural I nown bu re less ti er hazaro nstructura structural	Evaluati iilding ty han cut ds prese ral Eva al hazar hazarc	ype or o -off ent luation rd ident ds exist	Recon ified, s that m	uilding nmend hould l	ed? be eval	uated	, but
FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW O Exterior: Partial All Sides Aerial A Interior: None Visible Entered S Drawing Reviewd: Yes No C Soil Type Source: Ki Geohazards Source: C LEVEL 2 SCREENING PERFORMED? C Yes, Final Level 2 Score, S_{L2} : No C	DTHER HA2 are There H itructural Ev Dounding nown) D Falling ha	azards valuation potentia zards fr hazards t damag	n? al (Unle rom talle s or Soil	ers S _L . er adja Type	₁ > Cut-of cent build F	[f, if [ing [a	Detailed St Yes, unk Yes, sco Yes, oth Detailed No Yes, nor No, nons	ructural I nown bu re less ti er hazaro nstructura structura tructural valuation	Evaluati iilding ty han cut ds prese ral Eva al hazar hazarc n is not	ype or o -off ent luation rd ident ds exist necess	Recon ified, s that m	uilding nmend hould I nay req	ed? be eval	uated	

(Adopted from FEMA P-154 Data Collection Form)

LEVEL 2 (Optional) MODERATE Seismicity

Building Nan	ne :			Level 1 Score: S ₁₁ =				not co	nsider S _№
Screener Date/ Time	:		Level 1 Irregul	arity Modifiers: Vertica TED BASELINE S' = (S	I Irregularity , $V_{I1} =$	Pla	an Irregularity, $P_{II} =$		
		S TO ADD TO ADJUS			$(1 - V_{11} - P_{11}) =$				
Topic					ifier; otherwise cross out th	e modifier)		Yes	Subtota
Vertical	or - or		•		ne side of the building to the o			-1.4	
Irregularity,	Sloping Site	-			n one side of the building to th			-0.4	
	Weak	W1 Building Cripple	Wall : An unbrace	d cripple wall is visible in	the crawl space.			-0.7	
V _{<i>L</i>2}	and/or Soft Story	W1 House over Gara	ige : Underneath a	an occupied story, there	s a garage opening without a	steel moment f	rame, and there is		
	(Circle one	less than 8 ft of wall of	on the same line (for multiple occupied floo	ors above, use 16 ft of wall mi	nimum)		-1.4	
	maximum)	W1A Building Open F	Front : There are o	penings at the ground s	tory (such as for parking) over	at least 50 % c	of the length of the		
		building.						-1.4	
		Non-W1 Building : Le	ength of lateral sys	tem at any story is less	than 50 % of that at story abo	ve or height of a	any story is more		
		than 2.0 times the he	ight of the story a	bove.		-		-1.1	
					een 50 % and 75 % of that at	storv above or	height of any story is		
		between 1.3 and 2.0						-0.6	
	Setback			•	tboard of those at the story be	low causing the	diaphragm to		
			-	at an upper story are ou	iboard of those at the story be	now causing the	s diapriragini to	-1.2	
		cantilever at the offse						-0.6	
					ard of those at lower stories. r than the length of the element	nts		-0.4	
	Short				iers) along a column line in the		have height/depth		
	Column/			ight/depth ratio at that le			0 1	-0.5	
	Pier			0 1	h) is less than one half of the	depth of the spa	andrel, or there are		
		infill walls or adjacent						-0.5	
	Split Level	There is a split level a						-0.6	
	Other				iously affects the building's se	ismic performa	nce.	_	$V_{L2} =$
	Irregularity				nay affect the building's seism			-0.6	(Cap at -1
Plan	Torsional Irre	egularity: Lateral syste	m does not appea	r relatively well distribute	ed in plan in either or both dire	ections. (Do not	include the W1A	-1	
rregularity,	open front iri	egularity listed above)	1					-1	
P ₁₂	Non-parallel	System: There are on	e or more major v	ertical elements of the la	teral system that are not ortho	ogonal to each o	other.	-0.5	
	Reentrant Co	orner: Both projections	from an interior c	orner exceed 25 % of th	e overall plan dimensions in th	nat direction.		-0.5	
	Diaphragm (Opening: There is an o	pening in the diap	hragm with a width over	50 % of the total diaphragm v	vidth at that leve	əl.	-0.3	
				eams do not align with th				1	P _{L2} =
edundancy	, i i i i i i i i i i i i i i i i i i i		•	,	affects the building's seismic	performance.		-1 0.4	(Cap at -1
	, i i i i i i i i i i i i i i i i i i i			s on each side of the bui The floors do not align	2		(Cap total	-1.2	
Pounding	U U	eparated from an adjac	-	<u> </u>	pre stories taller than the other	,	- 1° '		
	less than 1.5	% of the height of the	e shorter of the	The building is at the e			pounding modifiers		
O Duilding		adjacent structure and eometry is visible.	d:	The building is at the e	TIG OF THE DIOCK.		at -0.9)	-0.6	
2 Building		rves as the beam in th	e moment frame					-1.2 -0.5	
C1/ RM1				om drawings that do not	rely on cross-grain bending.	(Do not combine	a with post-	0.0	
				on drawings that do not	Tely on cross-grain bending.		e with post-	0.4	
uilding		or retrofit modifier)				:		0.4	
IRM	Gable walls		uli neight interior w	alis (rather than an inter	ior space with few walls such	as in a warenou	ise)	-0.5	
1H	There is a su	pplemental seismic b	racing system pro	vided between the carria	ge and the ground.			1.2	
	•	ive seismic retrofit is v		om drawings.					M =
		$S_{L2} = (S' + V_{L2} + P_{L2})$					(Transfe	r to Le	vel 1 For
				o ,	building's seismic performan			**	
-			t below and indica	te on the Level 1 john th	at detailed evaluation is requi	rea independen	t of the building's sco	ie.	
		CTURAL HAZARDS Check "Yes" or "No"	<u>۱</u>			Yes No	Com	nents	
ocation exterior				or unbraced unreinforce	d masonrv chimnev.	765 140		nems	
XIEIIOI		vy cladding or heavy v			, ,				
					inadequately supported.				
		-		xit doors or pedestrian w	-				
			-	hazardous materials are	present. URM parapet or chimney.				
		ed exterior nonstructu					1		
nterior		llow clay tile or brick p		air or exit corridor.			1		
		ed interior nonstructu							
stimated No	onstructural	Seismic Performanc	e (Check appropr	iate box and transfer to l	evel 1 form conslusions)				
	ential nonstru	ctural hazards with sig	nificant threat to c		> Detailed Nonstructural E				
🗆 Non		ards identified with sig	-		> But no Detailed Nonstructur		•		

(Adopted from FEMA P-154 Data Collection Form)

(Adopted from FEMA P-154 Data Colle	ection F	-orm)															LOV	v Se	eismi	city
PHOTOGRAPH															City:					
							Ot	her ID:						L	Jse:					••••
						Bu	-													
															S _s :					
							Long	gitude:							S ₁ :					
							Scr	eener:							Date/Tir	ne:				
						#Stori	ies - Ab	ove Gr	round:		Below	Ground	d:	\	rear Bui	ilt:		□ Est		
						Total	Floor A	vrea (st	ft):					C	Code Ye	ear:				
						Add	itions:		□ Non	е	□ Yes	, Years	Built:							
						Occup	pancy:		□ Asse	embly	□ Con	nmercia	al	🗆 Eme	rgency S	Servic	es	□ Hist	toric	
									🗆 Indu	strial	□ Offi	се		C Scho	ols			□ Gov	/ernme	nt
									□ Utilit	y	□ Wa	rehouse	е	🗆 Resi	dential,#	Units	:	□ She	elter	
						Soil T	ype:		🗆 A: H	ard Ro	ck		🗆 C: S	oft Roc	k			🗆 E: \$	Soft Soi	il 👘
SKETCH									🗆 B: N	ormal I	Rock		🗆 D: H	lard Soi	il / DNK			🗆 F: F	Poor So	vil
						Geoh	azards			Liquef	action:		□ Yes,	, □ No,	D DNK					
										Lan	dslide:		□ Yes,	, □ No,	DNK					
	T 7								Sur	face Ru	upture:		□ Yes,	, □ No,						
						Adjac	ency:		Pour	nding			🗆 Falli	ng Haza	ards fron	n Tal	ler Adj	acent	Building	3
						Irregu	larities		□ Seve	ere Ver	tical Irr	egularit	y	[⊐ Plan Iı	rregul	larity			
						1			□ Mod	erate V	/ertical	Irregula	arity							
						_	_		□ Unb	raced (Chimne	ys	□ Hea	vy Clad	ding or H	Heavy	y Vene	er		
						Exteri Hazar	or Fall ds:	ing	Para	apets				endage	s					
	* *	; ;	((iiazai	us.		□ Othe	er:										
	T T I I I	; i	1 I	1 I		COMM	MENTS													
	1 1			i																
	1 1																			
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	1 1		([(1														
·	1 1		;	(□ Ado	ditional	sketche	es or co	mment	s on se	parate	page							
			BAS	IC SC	ORE, I	MODIF	IERS, A	AND FI	NAL LE	VEL 1	SCOR	E, S _{L1}								
BUILDING TYPE	DNK	W1	W1A	W2	S1	S2	S3	S4	S5	C1	C2	C3	PC1	PC2	RM1 R	M2	URM	MH	BN1	BN2
Basic Score		6.2	5.9	5.7	3.8	3.9	4.4	4.1	4.5	3.3	4.2	3.5	3.8	3.3	3.7 3	3.7	3.2	4.6	3.2	3.9
Severe Vertical Irregularity, V_{L1}		-1.5	-1.5	-1.5	-1.4	-1.3	-1.6	-1.2	-1.3	-1.3	-1.2	-1.1	-1.3	-1.1	-1.1 -	1.1	-1.2	NA	-1.2	-1.0
Moderate Vertical Irregularity, V_{L1}		-1.0	-0.9	-0.9	-0.9	-0.8	-1.0	-0.7	-0.7	-0.7	-0.7	-0.6	-0.8	-0.6	-0.6 -	0.6	-0.7	NA	-0.7	-0.7
Plan Irregularity, P_{L1}		-1.6	-1.4	-1.3	-1.2	-1.1	-1.4	-1.0	-1.1	-1.0	-1.0	-0.9	-1.2	-0.9	-0.9 -	0.9	-1.0	NA	-1.0	-1.1
Pre-Code		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA I	NA	NA	NA	NA	NA
Post-Benchmark		2.2	2.4	2.5	2.0	1.6	1.4	2.1	NA	2.3	2.2	NA	1.9	2.6	2.3 2	2.3	NA	1.8	NA	NA
Soil Type A or B		0.9	1.1	1.3	1.0	1.2	0.8	1.3	1.4	0.9	1.2	1.2	1.3	1.3	1.4 1	1.4	1.3	0.9	1.3	0.5
Soil Type E (1-3 stories)		-1.2	-1.7	-2.3	-1.2	-1.4	-1.0	-1.7	-2.0	-1.4	-2.0	-1.6	-1.7	-1.6	-1.7 -	1.7	-1.5	-2.1	-1.5	-0.6
Soil Type E (>3 stories)		-1.7	-2.0	-2.2	-1.2	-1.4	NA	-1.7	-1.9	-1.3	-1.9	-1.6	NA	-1.6	-1.6 -	1.7	-1.4	NA	NA	NA
Minimum Score, S _{MIN}		2.7	2.1	1.5	0.9	0.8	1.2	0.8	0.9	0.5	0.6	0.5	0.6	0.4	0.6	0.5	0.4	2.5	0.2	0.9
FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$														1	1					
EXTENT OF REVIEW				OTHE	R HAZ	ZARDS					ACTIC	N REG	UIRED)						
Exterior:		🗆 Aei	rial	Are TI	here H	azards	That T	rigger A	A Detaile	ed	Detaile	ed Strue	ctural E	valuatio	on Requi	ired?				
Interior: Interior: Visible		Ent				valuatio					D Yes	, unkno	own bui	Iding ty	pe or oth	ner bu	uilding			
Drawing Reviewd:		□ No						ess S,	₁ > Cut-	off, if				an cut-	-		5			
Soil Type Source:				knowr	-			2	-					s prese					□ No	
Geohazards Source:														•	uation Re	ecom	mende	ed?		
Contact Person:				□ Fal	ling ha	zards f	rom tall	er adja	icent bu	ilding					d identifie				uated	
LEVEL 2 SCREENING PERFORMED					oloaic	hazard	s or Soi	il Type	F						s exist th), but
\Box Yes, Final Level 2 Score, S ₁₂ :	□ No				Ũ				on to the	•					necessa		.,			,
Nonstructural Hazards?				struct											ards ider					~
							the foll	wina	EST – F	Stimat										<u> </u>
Where information							the follo	owing:	EST = E	Stimat										

(Adopted from FEMA P-154 Data Collection Form)

LEVEL 2 (Optional) LOW Seismicity

Building Nar	ne :			Level 1 Score: S ₁₁ =					not co	nsider S _A
creener Date/ Time	:		Level 1 Irregula	TED BASELINE of	cal Irregularity, $V_{I1} =$		Plar	Irregularity, $P_{I1} =$		
				ED BASELINE S' = ($(S_{11} - V_{11} - P_{11}) =$					
Topic		S TO ADD TO ADJUS Statemer			odifier; otherwise cross	out the modifie	r)		Yes	Subtota
Vertical					one side of the building to		.,		-1.5	
	Sloping Site				om one side of the buildin				-0.4	1
Irregularity,	Weak			cripple wall is visible		J			-0.7	1
V_{L2}	and/or Soft	W1 House over Gara	ge : Underneath a	n occupied story, there	e is a garage opening with	out a steel mor	nent fra	ame, and there is		1
	Story (Circle one	less than 8 ft of wall of	on the same line (fo	or multiple occupied fl	oors above, use 16 ft of w	all minimum)			-1.5	
	maximum)	W1A Building Open F	Front : There are o	penings at the ground	story (such as for parking) over at least 5	0 % of	the length of the		1
		building.							-1.5	
			ength of lateral syst	em at anv storv is les	s than 50 % of that at stor	v above or heigh	nt of ar	ny story is more		1
		than 2.0 times the he				,		,,	-1.3	
					ween 50 % and 75 % of th	hat at story aboy	e or h	eight of any story is		1
		_						eight of any story is	-0.6	
	Setback	between 1.3 and 2.0		•	with courd of the court the ot		a tha	dianhrann ta	0.0	
	October		-	at an upper story are o	outboard of those at the st	bry below causir	ng the	diaphragm to	-1.3	
		cantilever at the offse							-0.6	
					board of those at lower sto				-0.6	1
	Short				ter than the length of the e piers) along a column line		istem l	nave height/denth	-0.4	
	Column/							lave height depth	-0.6	
	Pier			ght/depth ratio at that	dth) is less than one half of	of the depth of th		adral or thora ara	0.0	{
							ie spai	nurei, or there are	-0.6	
	Split Loval	infill walls or adjacent							-0.6	
	Split Level Other	There is a split level a			wiguely offects the building	a's ssismis porf	ormon			V _{L2} =
	Irregularity				oviously affects the buildin t may affect the building's				-	(Cap at -1
Plan	Torsional Irre				uted in plan in either or bot			nclude the W1A		
rregularity,	open front irr	egularity listed above)							-1.1	
P _{L2}			e or more maior ve	rtical elements of the	lateral system that are no	t orthogonal to e	each ot	her.	-0.6	1
1 12					the overall plan dimension				-0.6	1
	Diaphragm C)pening: There is an o	pening in the diaph	ragm with a width ove	er 50 % of the total diaphra	agm width at tha	at level		-0.4]
	C1, C2 Build	ings Out-of-plane Offs	et: The exterior be	ams do not align with	the columns in plan.				-	P _{L2} =
	Other Irregul	arity: There is another	observable plan ir	regularity that obvious	ly affects the building's se	ismic performar	nce.		-	(Cap at -1
ledundancy					uilding in each direction.				0.4	
Pounding	Ũ	eparated from an adjad		-	n vertically within 2 feet.			(Cap total	-1.3	
	less than 1.5	% of the height of the	shorter of the		nore stories taller than the	other.		pounding modifiers		
		adjacent structure and	l:	The building is at the	end of the block.			at -0.9)	-0.6	
2 Building		eometry is visible.							-1.3	
1 Building	•	ves as the beam in th							-0.6	
C1/ RM1	There are roo	of-to-wall ties that are	visible or known fro	om drawings that do n	ot rely on cross-grain ben	ding. (Do not co	mbine	with post-		
uilding	benchmark o	r retrofit modifier)							0.4	
IRM	The building Gable walls a		Ill height interior wa	alls (rather than an int	erior space with few walls	such as in a wa	rehous	se)	0.4 -0.6	
/H		pplemental seismic b	acing system prov	ided between the carr	iage and the ground.				1.8	
letrofit		ive seismic retrofit is v	2 2 1		0 0					M =
INAL LEVE	2 SCORE, S	$S_{L2} = (S' + V_{L2} + P_{L2})^{-1}$	+M)≥ S _{MIN} :					(Transfei	r to Le	vel 1 For
					he building's seismic perfo					
yes, describ	e the condition	on in the comment box	below and indicate	e on the Level 1 form	that detailed evaluation is	required indepe	ndent	of the building's sco	re.	
BSERVABL	E NONSTRU	CTURAL HAZARDS								
ocation		Check "Yes" or "No"	,			Ye	es No	Comr	nents	
xterior		inbraced unreinforced		or unbraced unreinford	ced masonry chimney.		_			
		, , ,		walkways that appea	ars inadequately supported	1	_			
		inreinforced masonry	-		· · · · ·					
	There is a sig	gn posted on the build	ing that indicates h	azardous materials a	re present.					
				URM wall or unbrace	ed URM parapet or chimne	y.				
		ed exterior nonstructu	<u> </u>							
nterior		llow clay tile or brick p red interior nonstructur	-	II OF EXIT COFFICIOF.			-			
stimated N			ş	ate box and transfer to	D Level 1 form conslusions	;)				
		ctural hazards with sig			> Detailed Nonstruct	-	recom	mended		
		ards identified with sig			> But no Detailed No					
		uctural hazard threat to		-	> No Detailed Nonst					
							_			

(Adopted from FEMA P-154 Data Collection Form)

LEVEL 1 VERY HIGH Seismicity

	ction Fo	. /				-											H Se		
PHOTOGRAPH														City					
							Oth	ner ID:					•••••	Use:					•••••
						Bu	ilding I	Name:											
							Lat	itude:					•••••	S s	:				
							Long	itude:						S ₁	:				
							Scre	eener:						Dat	e/Time:				
						#Stori	es - Ab	ove Gr	round:		Below	Ground:		Year	Built: .		□ Est		
						Total	Floor A	rea (si	ft):					Cod	e Year:				
						Add	itions:		□ None	е	□ Yes,	Years	Built:						
						Occup	bancy:		□ Asse	embly	□ Com	nmercial		Emerger	icy Serv	ices	□ Hist	toric	
									🗆 Indu	strial	□ Offic	e		Schools			□ Gov	/ernme	nt
									🗆 Utilit	y	□ War	ehouse		Resident	ial,#Unit	ts:	□ She	elter	
						Soil T	ype:		🗆 A: H	ard Ro	ck	C	C: Sof	Rock			🗆 E: S	Soft Soi	il
SKETCH				l					🗆 B: N	ormal	Rock		D: Har	d Soil / D	NK		□ F: F	Poor So	oil
						Geoha	azards:			Liquef	action:] Yes, □	I No, □ [DNK				
										Lan	dslide:] Yes, 🗆	INo, □ □	NK				
									Surf	face R	upture:		∃ Yes, ⊏	INo, □ □	DNK				
						Adjace	ency:		Pour	nding] Falling	Hazards	from Ta	aller Ad	jacent	Building	g
						Irregu	larities	:	□ Seve	ere Vei	tical Irre	egularity		🗆 PI	an Irreg	ularity			
						-					/ertical I				5	-			
											Chimney	0	,	Cladding	or Heav	vy Vene	er		
							or Falli	ng	Para	apets] Appen	-					
			(Hazar	ds:		□ Othe	•			11.	- J					
						соми	IENTS		_ 00										
			$\frac{1}{2}$																
							litional	kotob	es or coi	mmont		ooroto n	000						
			BAS		ORE				NAL LE				aye						
BUILDING TYPE	DNK	W1	W1A		S1	S2	S3	S4	S5	C1	C2		PC1 P	C2 RM	1 RM2	URM	МН	BN1	BN2
Basic Score	DINK	2.1	1.9	1.8	1.5	1.4	1.6	1.4	1.2	1.0	1.2		_	.0 1.1		0.9			0.8
		-0.9	-0.9	-0.9	-0.8	-0.7	-0.8	1.4			1.4	0.5	1.1	_	_		11		0.0
		-0.3		-0.9	-0.0			-07			-0.8	-0.6	-07 -0	07 _07	· _0 7	<u> </u>	1.1	0.9	-06
Severe Vertical Irregularity, V_{L1}		_			-0.4			-0.7	-0.7	-0.7	-0.8			0.7 -0.7	_	-0.6	NA	-0.6	-0.6
Moderate Vertical Irregularity, V_{L1}		-0.6	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.7 -0.3	-0.7 -0.4	-0.4	-0.3	-0.4 -0	0.4 -0.4	-0.4	-0.6 -0.3	NA NA	-0.6 -0.3	-0.3
Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1}		-0.6 -0.7	-0.5 -0.7	-0.5 -0.6	-0.5	-0.4 -0.5	-0.5 -0.6	-0.4 -0.4	-0.7 -0.3 -0.4	-0.7 -0.4 -0.4	-0.4 -0.5	-0.3 -0.3	-0.4 -0).4 -0.4).4 -0.4	-0.4	-0.6 -0.3 -0.3	NA NA NA	-0.6 -0.3 -0.3	-0.3 0.0
Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-Code		-0.6 -0.7 -0.3	-0.5 -0.7 -0.3	-0.5 -0.6 -0.3	-0.5 -0.3	-0.4 -0.5 -0.2	-0.5 -0.6 -0.3	-0.4 -0.4 -0.2	-0.7 -0.3 -0.4 -0.1	-0.7 -0.4 -0.4 -0.1	-0.4 -0.5 -0.2	-0.3 -0.3 0.0	-0.4 -(-0.5 -(-0.2 -(0.4 -0.4 0.4 -0.4 0.1 -0.2	-0.4 -0.4 2 -0.2	-0.6 -0.3 -0.3 0.0	NA NA NA 0.0	-0.6 -0.3 -0.3 NA	-0.3 0.0 NA
Moderate Vertical Irregularity, V _{L1} Plan Irregularity, P _{L1} Pre-Code Post-Benchmark		-0.6 -0.7 -0.3 1.9	-0.5 -0.7 -0.3 1.9	-0.5 -0.6 -0.3 2.0	-0.5 -0.3 1.0	-0.4 -0.5 -0.2 1.1	-0.5 -0.6 -0.3 1.1	-0.4 -0.4 -0.2 1.5	-0.7 -0.3 -0.4 -0.1 NA	-0.7 -0.4 -0.4 -0.1 1.4	-0.4 -0.5 -0.2 1.7	-0.3 -0.3 0.0 NA	-0.4 -0 -0.5 -0 -0.2 -0 1.5 1	0.4 -0.4 0.4 -0.4 0.1 -0.2 .7 1.6	-0.4 -0.4 2 -0.2 1.6	-0.6 -0.3 -0.3 0.0 NA	NA NA NA 0.0 0.5	-0.6 -0.3 -0.3 NA NA	-0.3 0.0 NA NA
Moderate Vertical Irregularity, V _{L1} Plan Irregularity, P _{L1} Pre-Code Post-Benchmark Soil Type A or B		-0.6 -0.7 -0.3 1.9 0.5	-0.5 -0.7 -0.3 1.9 0.5	-0.5 -0.6 -0.3 2.0 0.4	-0.5 -0.3 1.0 0.3	-0.4 -0.5 -0.2 1.1 0.3	-0.5 -0.6 -0.3 1.1 0.4	-0.4 -0.4 -0.2 1.5 0.3	-0.7 -0.3 -0.4 -0.1 NA 0.2	-0.7 -0.4 -0.4 -0.1 1.4 0.2	-0.4 -0.5 -0.2 1.7 0.3	-0.3 -0.3 0.0 NA 0.1	-0.4 -(-0.5 -(-0.2 -(1.5 1 0.3 ()	0.4 -0.4 0.4 -0.4 0.1 -0.2 .7 1.6 .2 0.3	-0.4 -0.4 2 -0.2 1.6 0.3	-0.6 -0.3 -0.3 0.0 NA 0.1	NA NA NA 0.0 0.5 0.1	-0.6 -0.3 -0.3 NA NA 0.1	-0.3 0.0 NA NA 0.2
Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories)		-0.6 -0.7 -0.3 1.9 0.5 0.0	-0.5 -0.7 -0.3 1.9 0.5 -0.2	-0.5 -0.6 -0.3 2.0 0.4 -0.4	-0.5 -0.3 1.0 0.3 -0.3	-0.4 -0.5 -0.2 1.1 0.3 -0.2	-0.5 -0.6 -0.3 1.1 0.4 -0.2	-0.4 -0.2 1.5 0.3 -0.2	-0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1	-0.7 -0.4 -0.4 -0.1 1.4 0.2 -0.1	-0.4 -0.5 -0.2 1.7 0.3 -0.2	-0.3 -0.3 0.0 NA 0.1 0.0	-0.4 -(-0.5 -(-0.2 -(1.5 1 0.3 () -0.2 -(0.4 -0.4 0.4 -0.4 0.1 -0.2 .7 1.6 .2 0.3 0.1 -0.2	-0.4 -0.4 2 -0.2 1.6 0.3 2 -0.2	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0	NA NA 0.0 0.5 0.1 -0.1	-0.6 -0.3 -0.3 NA NA 0.1 0.0	-0.3 0.0 NA NA 0.2 0.0
Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories)		-0.6 -0.7 -0.3 1.9 0.5 0.0 -0.4	-0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4	-0.5 -0.6 -0.3 2.0 0.4 -0.4 -0.4	-0.5 -0.3 1.0 0.3 -0.3 -0.3	-0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3	-0.5 -0.6 -0.3 1.1 0.4 -0.2 NA	-0.4 -0.2 1.5 0.3 -0.2 -0.3	-0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1	-0.7 -0.4 -0.1 1.4 0.2 -0.1	-0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3	-0.3 -0.3 0.0 NA 0.1 0.0 -0.1	-0.4 -(-0.5 -(-0.2 -(1.5 1 0.3 (-0.2 -(NA -(0.4 -0.4 0.4 -0.4 0.1 -0.2 0.7 1.6 0.2 0.3 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2	-0.4 -0.4 2 -0.2 1.6 0.3 2 -0.2 2 -0.2 2 -0.2	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0	NA NA 0.0 0.5 0.1 -0.1 NA	-0.6 -0.3 -0.3 NA NA 0.1 0.0 NA	-0.3 0.0 NA NA 0.2 0.0 NA
Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories) Minimum Score, S_{MIN}		-0.6 -0.7 -0.3 1.9 0.5 0.0	-0.5 -0.7 -0.3 1.9 0.5 -0.2	-0.5 -0.6 -0.3 2.0 0.4 -0.4	-0.5 -0.3 1.0 0.3 -0.3	-0.4 -0.5 -0.2 1.1 0.3 -0.2	-0.5 -0.6 -0.3 1.1 0.4 -0.2	-0.4 -0.2 1.5 0.3 -0.2	-0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1	-0.7 -0.4 -0.4 -0.1 1.4 0.2 -0.1	-0.4 -0.5 -0.2 1.7 0.3 -0.2	-0.3 -0.3 0.0 NA 0.1 0.0 -0.1	-0.4 -(-0.5 -(-0.2 -(1.5 1 0.3 (-0.2 -(NA -(0.4 -0.4 0.4 -0.4 0.1 -0.2 .7 1.6 .2 0.3 0.1 -0.2	-0.4 -0.4 -0.2 1.6 0.3 2 -0.2 2 -0.2 2 -0.2	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0	NA NA 0.0 0.5 0.1 -0.1	-0.6 -0.3 -0.3 NA NA 0.1 0.0	-0.3 0.0 NA NA 0.2 0.0
Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories) Minimum Score, S_{MIN} FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$		-0.6 -0.7 -0.3 1.9 0.5 0.0 -0.4	-0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4 0.7	-0.5 -0.6 -0.3 2.0 0.4 -0.4 -0.4 0.7	-0.5 -0.3 1.0 0.3 -0.3 -0.3 0.5	-0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3 0.5	-0.5 -0.6 -0.3 1.1 0.4 -0.2 NA	-0.4 -0.2 1.5 0.3 -0.2 -0.3	-0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1	-0.7 -0.4 -0.1 1.4 0.2 -0.1	-0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3 0.3	-0.3 -0.3 0.0 NA 0.1 0.0 -0.1 0.3	-0.4 -(-0.5 -(-0.2 -(1.5 1 0.3 0 -0.2 -(NA -(0.2 0	0.4 -0.4 0.4 -0.4 0.1 -0.2 0.7 1.6 0.2 0.3 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2	-0.4 -0.4 2 -0.2 1.6 0.3 2 -0.2 2 -0.2 2 -0.2	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0	NA NA 0.0 0.5 0.1 -0.1 NA	-0.6 -0.3 -0.3 NA NA 0.1 0.0 NA	-0.3 0.0 NA NA 0.2 0.0 NA
Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories) Minimum Score, S_{MIN} FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW		-0.6 -0.7 1.9 0.5 0.0 -0.4 0.7	-0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4 0.7	-0.5 -0.6 -0.3 2.0 0.4 -0.4 -0.4 0.7	-0.5 -0.3 1.0 0.3 -0.3 -0.3 0.5	-0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3 0.5	-0.5 -0.6 -0.3 1.1 0.4 -0.2 NA 0.5	-0.4 -0.2 1.5 0.3 -0.2 -0.3 0.5	-0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1 0.5	-0.7 -0.4 -0.4 -0.1 1.4 0.2 -0.1 -0.1 0.3	-0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3 0.3 ACTIO	-0.3 -0.3 0.0 NA 0.1 0.0 -0.1 0.3 NREQI	-0.4 -(-0.5 -(-0.2 -(1.5 1 0.3 0 -0.2 -(NA -(0.2 0 JIRED	0.4 -0.4 0.4 -0.4 0.1 -0.2 0.7 1.6 .2 0.3 0.1 -0.2 0.1 -0.2 0.2 0.3	-0.4 -0.4 -0.2 1.6 0.3 2 -0.2 0.3 2 -0.2 0.3	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0 0.2	NA NA 0.0 0.5 0.1 -0.1 NA	-0.6 -0.3 -0.3 NA NA 0.1 0.0 NA	-0.3 0.0 NA NA 0.2 0.0 NA
Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories) Minimum Score, S_{MIN} FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW Exterior: \Box Partial \Box All Sides		-0.6 -0.7 -0.3 1.9 0.5 0.0 -0.4 0.7	-0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4 0.7	-0.5 -0.6 -0.3 2.0 0.4 -0.4 -0.4 0.7 OTHE Are Th	-0.5 -0.3 1.0 0.3 -0.3 0.5 R HAZ	-0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3 0.5	-0.5 -0.6 -0.3 1.1 0.4 -0.2 NA 0.5	-0.4 -0.2 1.5 0.3 -0.2 -0.3 0.5	-0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1	-0.7 -0.4 -0.4 -0.1 1.4 0.2 -0.1 -0.1 0.3	-0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3 0.3 ACTIO Detaile	-0.3 -0.3 0.0 NA 0.1 0.0 -0.1 0.3 NREQU	-0.4 -(-0.5 -(-0.2 -(1.5 1 0.3 0 -0.2 -(NA -(0.2 0 JIRED JIRED	0.4 -0.4 0.4 -0.4 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.3 0.1 -0.2	 -0.4 -0.4 -0.2 1.6 0.3 -0.2 -0.2 -0.2 -0.2 -0.2 -0.2 	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0 0.2	NA NA 0.0 0.5 0.1 -0.1 NA 1.0	-0.6 -0.3 -0.3 NA NA 0.1 0.0 NA	-0.3 0.0 NA NA 0.2 0.0 NA
Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories) Minimum Score, S_{MIN} FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW Exterior: Partial All Sides Interior: None Visible	[-0.6 -0.7 -0.3 1.9 0.5 0.0 -0.4 0.7	-0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4 0.7	-0.5 -0.6 -0.3 2.0 0.4 -0.4 -0.4 0.7 OTHE Are Th Struct	-0.5 -0.3 1.0 0.3 -0.3 0.5 R HAZ nere Ha	-0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3 0.5 XARDS azards valuatio	-0.5 -0.6 -0.3 1.1 0.4 -0.2 NA 0.5 That Tr n?	-0.4 -0.2 1.5 0.3 -0.2 -0.3 0.5	-0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1 0.5	-0.7 -0.4 -0.4 -0.1 1.4 0.2 -0.1 -0.1 0.3	-0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3 0.3 ACTIO Detaile □ Yes,	-0.3 -0.3 0.0 NA 0.1 0.0 -0.1 0.3 N REQU	-0.4 -(-0.5 -(-0.2 -(1.5 1 0.3 0 -0.2 -(NA -(0.2 0 JIRED uural Eva	0.4 -0.4 0.4 -0.4 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.3 0.1 -0.2 0.3	 -0.4 -0.4 -0.2 1.6 0.3 -0.2 -0.2 -0.2 -0.2 -0.2 -0.2 	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0 0.2	NA NA 0.0 0.5 0.1 -0.1 NA 1.0	-0.6 -0.3 -0.3 NA NA 0.1 0.0 NA	-0.3 0.0 NA NA 0.2 0.0 NA
Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (s3 stories) Minimum Score, S_{MIN} FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW Exterior: Partial All Sides Interior: None Visible Drawing Reviewd: Yes	[-0.6 -0.7 -0.3 1.9 0.5 0.0 -0.4 0.7 0.7	-0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4 0.7	-0.5 -0.6 -0.3 2.0 0.4 -0.4 -0.4 0.7 OTHE Are Th Struct	-0.5 -0.3 1.0 0.3 -0.3 0.5 R HAZ nere Ha	-0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3 0.5 XARDS azards valuatio	-0.5 -0.6 -0.3 1.1 0.4 -0.2 NA 0.5 That Tr n?	-0.4 -0.2 1.5 0.3 -0.2 -0.3 0.5	-0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1 0.5	-0.7 -0.4 -0.4 -0.1 1.4 0.2 -0.1 -0.1 0.3	-0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3 0.3 ACTIO Detaile □ Yes, □ Yes,	-0.3 -0.3 0.0 NA 0.1 0.0 -0.1 0.3 N REQU d Struct unknow	-0.4 -(-0.5 -(-0.2 -(1.5 1 0.3 0 -0.2 -(NA -(0.2 0 JIRED -ural Eva vn buildi ess thar	0.4 -0.4 0.4 -0.4 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.3 0.1 -0.2 0.3 0.1 -0.2 0.3	 -0.4 -0.4 -0.2 1.6 0.3 -0.2 -0.2 -0.2 -0.2 -0.2 -0.2 	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0 0.2	NA NA 0.0 0.5 0.1 -0.1 NA 1.0	-0.6 -0.3 -0.3 NA 0.1 0.0 NA 0.2	-0.3 0.0 NA NA 0.2 0.0 NA
Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories) Minimum Score, S_{MIN} FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW Exterior: Partial All Sides Interior: None Visible Drawing Reviewd: Yes	[-0.6 -0.7 -0.3 1.9 0.5 0.0 -0.4 0.7 0.7	-0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4 0.7	-0.5 -0.6 -0.3 2.0 0.4 -0.4 -0.4 0.7 OTHE Are Th Struct	-0.5 -0.3 1.0 0.3 -0.3 -0.3 0.5 R HAZ nere Haunding	-0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3 0.5 XARDS azards valuatio	-0.5 -0.6 -0.3 1.1 0.4 -0.2 NA 0.5 That Tr n?	-0.4 -0.2 1.5 0.3 -0.2 -0.3 0.5	-0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1 0.5	-0.7 -0.4 -0.4 -0.1 1.4 0.2 -0.1 -0.1 0.3	-0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3 0.3 0.3 ACTIO Detaile □ Yes, □ Yes,	-0.3 -0.3 0.0 NA 0.1 0.0 -0.1 0.3 N REQU d Struct unknow score I other h	-0.4 -(-0.5 -(-0.2 -(1.5 1 0.3 0 -0.2 -(NA -(0.2 0 JIRED JIRED ural Eva vn buildi ess than azards p	0.4 -0.4 0.4 -0.4 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.3 0.1 -0.2 0.3	-0.4 -0.4 -0.2 1.6 0.3 -0.2 -0.2 -0.2 -0.2 0.3	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0 0.2	NA NA 0.0 0.5 0.1 -0.1 NA 1.0	-0.6 -0.3 -0.3 NA NA 0.1 0.0 NA	-0.3 0.0 NA NA 0.2 0.0 NA
Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories) Minimum Score, S_{MIN} FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW Exterior: Partial All Sides Interior: None Visible Drawing Reviewd: Yes] [-0.6 -0.7 -0.3 1.9 0.5 0.0 -0.4 0.7 0.7	-0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4 0.7	-0.5 -0.6 -0.3 2.0 0.4 -0.4 -0.4 0.7 OTHE Are Th Struct □ Pou knowr	-0.5 -0.3 1.0 0.3 -0.3 -0.3 0.5 R HAZ here Haural Evunding	-0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3 0.5 ZARDS azards valuatio potenti	-0.5 -0.6 -0.3 1.1 0.4 -0.2 NA 0.5 That Tr n? al (Unle	-0.4 -0.4 -0.2 1.5 0.3 -0.2 -0.3 0.5	-0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1 0.5	-0.7 -0.4 -0.4 -0.1 1.4 0.2 -0.1 -0.1 0.3	-0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3 0.3 0.3 ACTIO Detaile □ Yes, □ Yes,	-0.3 -0.3 0.0 NA 0.1 0.0 -0.1 0.3 N REQU d Struct unknow score I other h	-0.4 -(-0.5 -(-0.2 -(1.5 1 0.3 0 -0.2 -(NA -(0.2 0 JIRED JIRED ural Eva vn buildi ess than azards p	0.4 -0.4 0.4 -0.4 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.3 0.1 -0.2 0.3 0.1 -0.2 0.3	-0.4 -0.4 -0.2 1.6 0.3 -0.2 -0.2 -0.2 -0.2 0.3	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0 0.2	NA NA 0.0 0.5 0.1 -0.1 NA 1.0	-0.6 -0.3 -0.3 NA 0.1 0.0 NA 0.2	-0.3 0.0 NA NA 0.2 0.0 NA
Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories) Minimum Score, S_{MIN} FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW Exterior: Partial All Sides Interior: None Visible Drawing Reviewd: Yes Soil Type Source: Soil Type Source] [-0.6 -0.7 -0.3 1.9 0.5 0.0 -0.4 0.7 Aerii Ente No	-0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4 0.7 ial ered 	-0.5 -0.6 -0.3 2.0 0.4 -0.4 -0.4 0.7 OTHE Are Th Struct □ Pou knowr	-0.5 -0.3 1.0 0.3 -0.3 -0.3 0.5 R HAZ here Haural Evunding	-0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3 0.5 ZARDS azards valuatio potenti	-0.5 -0.6 -0.3 1.1 0.4 -0.2 NA 0.5 That Tr n? al (Unle	-0.4 -0.4 -0.2 1.5 0.3 -0.2 -0.3 0.5	-0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1 0.5	-0.7 -0.4 -0.4 -0.1 1.4 0.2 -0.1 -0.1 0.3	-0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3 0.3 0.3 ACTIO Detaile □ Yes, □ Yes, Detaile	-0.3 -0.3 0.0 NA 0.1 0.0 -0.1 0.3 N REQU d Struct unknow score I other h d Nonst	-0.4 -(-0.5 -(-0.2 -(1.5 1 0.3 0 -0.2 -(NA -(0.2 0 JIRED ural Eva vn buildi ess than azards p	0.4 -0.4 0.4 -0.4 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.3 0.1 -0.2 0.3	 -0.4 -0.4 -0.2 1.6 0.3 -0.2 -	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0 0.2	NA NA 0.0 0.5 0.1 -0.1 NA 1.0	-0.6 -0.3 -0.3 NA 0.1 0.0 NA 0.2	-0.3 0.0 NA NA 0.2 0.0 NA
Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories) Minimum Score, S_{MIN} FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW Exterior: Partial All Sides Interior: None Visible Drawing Reviewd: Yes Yes Soil Type Source: Geohazards Source: Source:	ן ו 	-0.6 -0.7 -0.3 1.9 0.5 0.0 -0.4 0.7 Aerii Ente No	-0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4 0.7 ial ered 	-0.5 -0.6 -0.3 2.0 0.4 -0.4 -0.4 0.7 OTHE Are Th Struct □ Pou knowr	-0.5 -0.3 1.0 0.3 -0.3 -0.3 0.5 R HA2 Mural Evunding	-0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3 0.5 ZARDS azards valuatio potenti	-0.5 -0.6 -0.3 1.1 0.4 -0.2 NA 0.5 That Tr n? al (Unle	-0.4 -0.4 -0.2 1.5 0.3 -0.2 -0.3 0.5	-0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1 0.5	-0.7 -0.4 -0.4 -0.1 1.4 0.2 -0.1 -0.1 0.3	-0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3 0.3 ACTIO Detaile □ Yes, □ Yes, Detaile □ Yes,	-0.3 -0.3 0.0 NA 0.1 0.0 -0.1 0.3 N REQU d Struct unknow score I other h d Nonstruct	-0.4 -(-0.5 -(-0.2 -(1.5 1 0.3 0 -0.2 -(NA -(0.2 0 URED URED URED URED URED URED URED URED	0.4 -0.4 0.4 -0.4 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.2 0.3 Iluation R -0.2 ng type c cut-off oresent Evaluation	 -0.4 -0.4 -0.2 1.6 0.3 -0.2 -0.2 0.3 -0.2 0.3 	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0 0.2	NA NA 0.0 0.5 0.1 -0.1 NA 1.0	-0.6 -0.3 -0.3 NA 0.1 0.0 NA 0.2	-0.3 0.0 NA 0.2 0.0 NA 0.2
Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (s3 stories) Minimum Score, S_{MIN} FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW Exterior: Partial All Sides Interior: None Visible Drawing Reviewd: Yes Yes Soil Type Source: Geohazards Source: Contact Person:	ן ו 	-0.6 -0.7 -0.3 1.9 0.5 0.0 -0.4 0.7 Aerii Ente No	-0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4 0.7 ial ered 	-0.5 -0.6 -0.3 2.0 0.4 -0.4 -0.4 0.7 OTHE Are Th Struct Characteristics known E Fall	-0.5 -0.3 1.0 0.3 -0.3 -0.3 0.5 R HA2 Mural Exunding -0.5	-0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3 0.5 ZARDS azards valuatio potenti zards fi	-0.5 -0.6 -0.3 1.1 0.4 -0.2 NA 0.5 That Tr n? al (Unle rom talles s or Soi	-0.4 -0.2 1.5 0.3 -0.2 -0.3 0.5	-0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1 0.5	-0.7 -0.4 -0.4 -0.1 1.4 0.2 -0.1 -0.1 0.3	-0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3 0.3 0.3 ACTIO Detaile U Yes, Detaile Ves, Detaile	-0.3 -0.3 0.0 NA 0.1 0.0 -0.1 0.3 N REQU d Struct , unknov , score I , other h d Nonstruct nonstruct	-0.4 -(-0.5 -(-0.2 -(1.5 1 0.3 0 -0.2 -(NA -(0.2 0 URED URED URED URED URED URED URED URED	0.4 -0.4 0.4 -0.4 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.2 0.3 0.4 -0.4 0.1 -0.2 0.2 0.3 0.1 -0.2 0.2 0.3 0.4 -0.4 0.5 -0.2 0.6 -0.2 0.7 -0.2 0.8 -0.2 0.9 -0.2 0.1 -0.2 0.2 0.3 0.3 -0.2 0.4 -0.2 0.5 -0.2 0.6 -0.2 0.7 -0.2 0.8 -0.2 0.9 -0.2 0.9 -0.2 0.9 -0.2 0.9 -0.2	-0.4 -0.4 -0.2 1.6 0.3 -0.2 -0.2 -0.2 -0.2 0.3 equired' r other the on Reconstruction of the second entified, second	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0 0.2	NA NA 0.0 0.5 0.1 -0.1 NA 1.0	-0.6 -0.3 -0.3 NA 0.1 0.0 NA 0.2	-0.3 0.0 NA 0.2 0.0 NA 0.2
Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories) Minimum Score, S_{MIN} FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW Exterior: Partial Interior: None Usible Drawing Reviewd: Yes Soil Type Source: Contact Person: LEVEL 2 SCREENING PERFORMED?] 	-0.6 -0.7 -0.3 1.9 0.5 0.0 -0.4 0.7 Aeri Ente	-0.5 -0.7 -0.3 1.9 0.5 -0.2 -0.4 0.7 ial ered 	-0.5 -0.6 -0.3 2.0 0.4 -0.4 -0.4 0.7 OTHE OTHE Struct Pou knowr B Fall Geo	-0.5 -0.3 1.0 0.3 -0.3 0.5 R HAZ nore H ural Ev unding)) ing ha ologic I nifican	-0.4 -0.5 -0.2 1.1 0.3 -0.2 -0.3 0.5 ZARDS azards valuatio potenti zards fi hazards	-0.5 -0.6 -0.3 1.1 0.4 -0.2 NA 0.5 That Tr n? al (Unle rom talles s or Soi	-0.4 -0.2 1.5 0.3 -0.2 -0.3 0.5	-0.7 -0.3 -0.4 -0.1 NA 0.2 -0.1 -0.1 0.5 A Detaile 7 > Cut-f	-0.7 -0.4 -0.4 -0.1 1.4 0.2 -0.1 -0.1 0.3	-0.4 -0.5 -0.2 1.7 0.3 -0.2 -0.3 0.3 ACTIO Detaile Q Yes, Detaile Q Yes, Detaile Q Yes, a detail	-0.3 -0.3 -0.3 0.0 NA 0.1 0.0 -0.1 0.3 -0.1	-0.4 -(-0.5 -(-0.2 -(1.5 1 0.3 0 -0.2 -(NA -(0.2 0 JIRED JIRED ural Eva vn buildi ess than azards p ructural uctural ha uation is	0.4 -0.4 0.4 -0.4 0.1 -0.2 0.1 -0.2 7 1.6 .2 0.3 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.1 -0.2 0.2 0.3 0.3 -0.2 0.4 -0.4 0.5 -0.2 0.1 -0.2 0.2 0.3 0.4 -0.4 0.5 -0.2 0.3 -0.2 0.3 -0.2 0.3 -0.2 0.4 -0.2 0.5 -0.2 0.3 -0.2 0.4 -0.2 0.5 -0.2 0.5 -0.2 0.5 -0.2 0.5 -0.2 0.5 -0.2 0.5 -0.2 0.5 -0.2 <	-0.4 -0.4 -0.2 1.6 0.3 -0.2 -0.2 -0.2 -0.2 0.3 equired' r other t on Reconstruction entified, s st that n essary	-0.6 -0.3 -0.3 0.0 NA 0.1 0.0 0.0 0.2 ? puilding	NA NA 0.0 0.5 0.1 -0.1 NA 1.0	-0.6 -0.3 -0.3 NA 0.1 0.0 NA 0.2	-0.3 0.0 NA 0.2 0.0 NA 0.2

(Adopted from FEMA P-154 Data Collection Form)

		o be performed by a civil or		professional, architect, or gra	duate student with background ir	n seismic eval	luation c	or des	ign of buildings.		-
Building Nam Screener	ie <u>:</u>			Level 1 Score: S ₁₁ = arity Modifiers: Vertica	Line and a stress M			21		not co	nsider S _{MI}
Date/ Time			ADJUST	TED BASELINE S' = (S	a irregularity, $V_{11} =$		ŀ	Plan	Irregularity, $P_{I1} =$		
		S TO ADD TO ADJUS									
Topic					lifier; otherwise cross ou	it the mod	lifier)			Yes	Subtotal
Vertical	Oleminer Oite	W1 Building : There i	is at least a full sto	ry grade change from o	ne side of the building to th	he other.				-0.9	
Irregularity,	Sloping Site	Non-W1 Building : Th	ner is at least a full	story grade change from	m one side of the building	to the othe	er.			-0.2	
	Weak	W1 Building Cripple	Wall : An unbraced	l cripple wall is visible ir	the crawl space.					-0.5	
V _{<i>L</i>2}	and/or Soft Story	W1 House over Gara	age : Underneath a	n occupied story, there	is a garage opening withou	ut a steel m	nomen	t fra	me, and there is		
	(Circle one	less than 8 ft of wall	on the same line (fo	or multiple occupied flo	ors above, use 16 ft of wall	l minimum))			-0.9	
	maximum)	W1A Building Open I	Front : There are o	penings at the ground s	tory (such as for parking)	over at leas	st 50 %	6 of	the length of the		
		building.							-	-0.9	
			enoth of lateral syst	tem at any story is less	than 50 % of that at story	above or he	eiaht o	of an	v storv is more		
		than 2.0 times the he			,		5		, ,	-0.7	
					veen 50 % and 75 % of tha	t at story a		or ho	ight of any story is		
		0				it at story a			Ignit of any story is	-0.4	
	Setback	between 1.3 and 2.0	-	-	describer of the second states of the					0.4	
	Seidack	Vertical elements of t	the lateral system a	at an upper story are ou	tboard of those at the story	y below car	using t	the c	liaphragm to	0.7	
		cantilever at the offse	et.							-0.7	
					pard of those at lower storie					-0.4	
	Short				r than the length of the ele			m h	ave beight/depth	-0.2	
	Column/				iers) along a column line ir	ii liie laleia	ai syste	; []]]	ave neight/depth	-0.4	
	Pier			ight/depth ratio at that le		the devit	of +1		deal of the set of the	0.4	
					th) is less than one half of	une depth o	or the s	span	urei, or there are	<u> </u>	
	Colit I cont	infill walls or adjacent								-0.4	
	Split Level Other	There is a split level			terrel and the standard back the state					-	V ₁₂ =
	Irregularity				riously affects the building's se				e.		• [2 (Cap at -0.9
Plan					ed in plan in either or both				clude the W1A	-	. ,
		egularity listed above)		· · · · · ,	· · · · · · · · · · · · · · · · · · ·		v			-0.5	
	-			artical elements of the la	ateral system that are not c	orthogonal	to eac	h oth)er	-0.2	
· L2					e overall plan dimensions	-				-0.2	
					50 % of the total diaphrag			evel.		-0.2	
	· · · · · ·		·	ams do not align with th						-0.2	P _{L2} =
	Other Irregul	arity: There is another	observable plan ir	regularity that obviously	affects the building's seis	mic perforr	mance			-0.5	(Cap at -0.7
Redundancy	The building	has at least two bays		on each side of the bu						0.2	
Pounding	Building is se	eparated from an adja	cent structure by	The floors do not align	vertically within 2 feet.				(Cap total	-0.7	
	less than 1.5	% of the height of the	e shorter of the	One building is 2 or me	ore stories taller than the o	other.			pounding modifiers	-0.7	
	building and	adjacent structure and	d:	The building is at the e	end of the block.				at -0.9)	-0.4	
S2 Building		eometry is visible.								-0.7	
C1 Building	Flat plate ser	ves as the beam in th	e moment frame.							-0.3	
PC1/ RM1	There are roo	of-to-wall ties that are	visible or known fro	om drawings that do no	t rely on cross-grain bendir	ng. (Do not	t comb	ine v	vith post-		
Building	benchmark c	r retrofit modifier)								0.2	
			ull height interior wa	alls (rather than an inter	ior space with few walls su	uch as in a	wareh	ous	e)	0.2	
JRM //H	Gable walls a	-	racing avotom prov	vided between the carria	an and the ground					-0.3	
		ive seismic retrofit is v	• •		ige and the ground.					0.5	M =
	•	$S_{L2} = (S' + V_{L2} + P_{L2})$, a a a a a a a a a a a a a a a a a a a					(Transfer		
				at negatively affects the	e building's seismic perforr	nance: 🗆	Yes 🗆	l No			
					at detailed evaluation is re				of the building's scor	e.	
OBSERVABL	E NONSTRU	CTURAL HAZARDS									
ocation	Statement (Check "Yes" or "No")				Yes	No	Comm	ents	
xterior				or unbraced unreinforce	d masonry chimney.						
		vy cladding or heavy v						_			
			•	n walkways that appear xit doors or pedestrian v	s inadequately supported.		\vdash				
		· · · · · ·		nazardous materials are	-		\vdash	_			
		, ,	0		URM parapet or chimney.						
		ed exterior nonstructu									
		llow clay tile or brick p		air or exit corridor.							
		ed interior nonstructu	÷								
					Level 1 form conslusions)						
		stural bazarde with eig	inificant threat to or	ccupant life safety.	> Detailed Nonstructur	al Evaluation	on rec	omn	nended.		
□ Pote		-		-	D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (D (
□ Pote □ Non:	structural haz	ards identified with sig	gnificant threat to o	occupant life safety.	> But no Detailed Nons				-		
□ Pote □ Non:	structural haz	-	gnificant threat to o	occupant life safety.	> But no Detailed Nons				-		

(Adopted from FEMA P-154 Data Collection Form)

		A	ddress:						City:					
	-													
									Ũ					
	_		-											
	-									-				
	_	#Stories - A												
	Т	Total Floor												
	_	Additions	:	□ None		□ Yes, Ye								
	c	Occupancy		□ Asser	mbly [Comme	rcial	□ Em	ergenc	y Servi	ces	□ Hist	oric	
				□ Indus	trial [□ Office		□ Sch	nools			□ Gov	rernmer	nt
	_			□ Utility	· [U Wareho	use	□ Res	sidentia	ıl,#Unit	s:	□ She	lter	
	s	Soil Type:		□ A: Ha	rd Roc	k	□ C:	Soft Ro	ck			🗆 E: S	Soft Soil	I
SKETCH				🗆 B: No	rmal R	ock	□ D:	Hard So	oil / DN	K		🗆 F: F	oor So	il
	c	Geohazards	5:	L	_iquefa	ction:	□ Ye	s, 🗆 No	, □ DN	NK				
					Land	slide:	□ Ye	s, 🗆 No	, □ DN	١K				
				Surfa	ace Rup	pture:	□ Ye	s, 🗆 No	, □ DN	١K				
	4	Adjacency:		D Pound	ding		□ Fal	ling Ha	zards fi	rom Ta	ller Adj	acent I	Building	1
		rregularitie	s:	□ Sever	re Verti	ical Irregul	arity		□ Plar	n Irregu	ularity			
				□ Mode	rate Ve	ertical Irreg	Jularity							
				Unbra	aced Cl	himneys	□ He	avy Cla	dding c	or Heav	y Vene	er		
		Exterior Fal	ling	Parap				oendag	Ũ					
	F	lazards:		□ Other				5						
			\$	- 00	•									
		☐ Additiona												
BASIC SCO			-											
BUILDING TYPE DNK W1 W1A W2	S1	S2 S3	S4	S5	C1	C2 C:	B PC1	PC2	RM1	RM2	URM	MH	BN1	BN
Basic Score 3.6 3.2 2.9	2.1	2.0 2.6	2.0	1.7	1.5	2.0 1.:	_	1.4	1.7	1.7	1.0	1.5	1.0	1.4
Severe Vertical Irregularity, V _{L1} -1.2 -1.2 -1.2		-1.0 -1.1	-1.0		-0.9	-1.0 -0.	_	-0.9	-0.9	-0.9	-0.7	NA	-0.7	-0.8
Aoderate Vertical Irregularity, V _{L1} -0.7 -0.7 -0.7	-0.6	-0.6 -0.7	-0.6		-0.5	-0.6 -0.	_	-0.5	-0.5	-0.5	-0.4	NA	-0.4	-0.5
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	-0.4	-0.5
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	NA	NA
Post-Benchmark 1.6 1.9 2.2	1.4	1.4 1.1	1.9	NA	1.9	2.1 N/	2.0	2.4	2.1	2.1	NA	1.2	NA	NA
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	3 0.6	0.4	0.5	0.5	0.3	0.3	0.3	0.9
	-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	-0.2	-0.6
Soil Type E (1-3 stories) 0.2 0.2 0.1	-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	NA	NA
Soil Type E (1-3 stories) 0.2 0.2 0.1 Soil Type E (>3 stories) -0.3 -0.6 -0.9		0.5 0.6	0.5	0.5	0.3	0.3 0.3	3 0.2	0.2	0.3	0.3	0.2	1.0	0.2	0.2
	0.5													
Soil Type E (>3 stories) -0.3 -0.6 -0.9	0.5													
Soil Type E (>3 stories) -0.3 -0.6 -0.9 Ainimum Score, S _{MIN} 1.1 0.9 0.7		ARDS				ACTION R	EQUIRE	D						
Soil Type E (>3 stories)-0.3-0.6-0.9Minimum Score, S_{MIN} 1.10.90.7FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ OTHEROTHER	R HAZA		Frigger /	A Detailed		ACTION R Detailed S			ion Re	quired)			
Soil Type E (>3 stories) -0.3 -0.6 -0.9 Ainimum Score, S_{MIN} 1.1 0.9 0.7 FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW OTHER Exterior: \Box Partial \Box All Sides \Box Aerial Are The	R HAZA ere Haz	zards That	Frigger /	A Detailed	з	Detailed S	tructural	Evaluat		•				
Soil Type E (>3 stories)-0.3-0.6-0.9Minimum Score, S MIN1.10.90.7TINAL LEVEL 1 SCORE, S L1 \ge S MINOTHEREXTENT OF REVIEW \bigcirc AerialAre The StructureExterior: \bigcirc Partial \bigcirc All Sides \bigcirc AerialInterior: \bigcirc None \bigcirc Visible \bigcirc Entered	R HAZA ere Haz ıral Eva	zards That Taluation?			1 E	Detailed S □ Yes, un	tructural known bi	Evaluat uilding t	ype or	•				
Soil Type E (>3 stories)-0.3-0.6-0.9Minimum Score, S_{MIN} 1.10.90.7FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEWOTHEFExterior:PartialAll SidesAerialI All SidesA AerialInterior:NoneVisibleEnteredStructuOTHEFOTHEF	R HAZA ere Haz ıral Eva nding p	zards That			d [[vff, if [Detailed S □ Yes, un □ Yes, sc	tructural known bi pre less t	Evaluat uilding t han cut	ype or -off	•				
Soil Type E (>3 stories)-0.3-0.6-0.9Minimum Score, S_{MIN} 1.10.90.7FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ OTHEREXTENT OF REVIEWAerialAre The StructureExterior:PartialAll SidesAerialInterior:NoneVisibleEnteredDrawing Reviewd:YesNoPour known)	R HAZA ere Haz ıral Eva nding p	zards That T aluation?			1 E 1 ff, if [Detailed S □ Yes, un □ Yes, sc □ Yes, oth	tructural known bi pre less t er hazar	Evaluat uilding t han cut ds pres	ype or i-off ent	other b	uilding	ed?	□ No	
Soil Type E (>3 stories)-0.3-0.6-0.9Inimum Score, S_{MIN} 1.10.90.7TINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ TINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ OTHEREXTENT OF REVIEW \Box AerialAre The StructuExterior: \Box PartialAll Sides \Box AerialInterior: \Box None \Box Visible \Box EnteredDrawing Reviewd: \Box Yes \Box No \Box Pour Soil Type Source:Geohazards Source: \Box Fallin	R HAZA ere Haz ural Eva nding p	zards That T aluation?	less S _L	₁ > Cut-o	ding	Detailed S □ Yes, un □ Yes, scr □ Yes, oth Detailed N	tructural known bu bre less t ler hazar onstructu	Evaluat uilding t han cut ds pres ural Eva	ype or t-off ent iluation	other b	uilding nmend			
Soil Type E (>3 stories)-0.3-0.6-0.9Minimum Score, S_{MIN} 1.10.90.7FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEWOTHEFExterior: \square PartialAll Sides \square AerialAre TheExterior: \square Partial \square All Sides \square AerialAre TheInterior: \square None \square Visible \square EnteredStructuDrawing Reviewd: \square Yes \square No \square PourSoil Type Source: \square Known) \square FallinContact Person: \square Fallin	R HAZA ere Haz ıral Eva nding p) ng haza	zards That ⁻ aluation? ootential (Un ards from ta	less S _L ller adja	1 > Cut-o	d [ff, if [ding [Detailed S Yes, un Yes, sco Yes, oth Detailed N Yes, no	tructural known bu ore less t er hazar onstructu	Evaluat uilding t han cut ds pres ural Eva al haza	ype or eoff ent lluation rd ident	other b Recor tified, s	uilding nmend hould l	be eval	uated	L.
Soil Type E (>3 stories)-0.3-0.6-0.9Minimum Score, S_{MIN} 1.10.90.7TINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEWOTHEFExterior:PartialAll SidesAerialInterior:NoneVisibleEnteredStructuDrawing Reviewd:YesNoPourSoil Type Source:Contact Person:FallinContact Person:EXCEENING PERFORMED?Geol	R HAZA ere Haz ıral Eva nding p) ng haza logic ha	zards That ⁻ aluation? ootential (Un ards from ta azards or So	less S_L ller adja bil Type	₁ > Cut-o acent build F	d [ff, if [ding [[Detailed S Yes, un Yes, sci Yes, oth Detailed N Yes, no No, non	tructural known bu ore less t ler hazar onstructur nstructur structura	Evaluat uilding t han cut ds pres ural Eva al haza I hazaro	ype or ent iluation rd ident ds exist	other b Recor tified, s t that m	uilding nmend hould l	be eval	uated	, but
Soil Type E (>3 stories)-0.3-0.6-0.9Minimum Score, S_{MIN} 1.10.90.7TINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEWOTHEFExterior:PartialAll SidesAerialInterior:NoneVisibleEnteredStructuDrawing Reviewd:YesNoPourSoil Type Source:Contact Person:FallinContact Person:EXCEENING PERFORMED?Geol	R HAZA ere Haz ıral Eva nding p) ng haza logic ha	zards That ⁻ aluation? ootential (Un ards from ta	less S_L ller adja bil Type	₁ > Cut-o acent build F	ding attrict	Detailed S Yes, un Yes, sco Yes, oth Detailed N Yes, no	tructural known bu ore less t er hazar onstructur nstructur structura evaluatio	Evaluat uilding t han cut ds pres ural Eva al hazar I hazaro n is not	ype or ent luation rd ident ds exist	tified, s t that m	uilding nmend hould I nay req	be eval	uated	

(Adopted from FEMA P-154 Data Collection Form)

LEVEL 2 (Optional) HIGH Seismicity

Building Na		o be performed by a civil o		professional, architect, Level 1 Score: S		t with background in seis	mic evaluation	or de		not cc	nsider S _{MI}	
Screener				arity Modifiers: V		hy V		Plan	$(Do Irregularity, P_{11} =$	not co	nsider S _{MI}	
Date/ Time			ADJUST	TED BASELINE S	$f = (S_{12} - V_{12} - I)$	$(y, v_{1}) =$		Fiai	Γ_{III} =			
STRUCTURA		S TO ADD TO ADJU										
Topic					modifier; othe	rwise cross out th	e modifier)			Yes	Subtota	
Vertical	or i or	W1 Building : There	is at least a full sto	ry grade change fr	om one side of	he building to the o	ther.			-1.2		
Irregularity,	Sloping Site	Non-W1 Building : T								-0.3		
	Weak	W1 Building Cripple								-0.6		
V_{L2}	and/or Soft	W1 House over Garage : Underneath an occupied story, there is a garage opening without a steel moment frame, and there is										
	Story (Circle one	less than 8 ft of wall	on the same line (f	or multiple occupie	ed floors above	use 16 ft of wall mir	nimum)			-1.2		
	maximum)		,	· · ·			,	% of	the length of the			
	, í	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.										
		building. 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 he	÷ .							-0.9		
		Non-W1 Building : Le			between 50 %	and 75 % of that at	story above	or he	eight of any story is	-0.5		
	Setback	between 1.3 and 2.0	-	-	uro outboard of t	acco at the story be	low causing	tho	dianhragm to	-0.5		
		cantilever at the offse	of the lateral system at an upper story are outboard of those at the story below causing the diaphragm to									
		Vertical elements of		at uppor storios ar	o inhoard of tho	a at lower stories				-0.5		
		There is an in-plane					nts			-0.3		
	Short	C1,C2,C3,PC1,PC2,						tem h	nave height/depth			
	Column/	ratios less than 50 %					,		0 1	-0.5		
	Pier	C1,C2,C3,PC1,PC2,				han one half of the	denth of the	snar	drel or there are			
								Spai		-0.5		
	Split Louis	infill walls or adjacent floors that shorten the column. There is a split level at one of the floor levels or at the roof.										
	Split Level Other					ata tha huilding'a aa	iomio porfor			-0.5	V _{L2} =	
	Irregularity	There is another obs There is another obs							ce.		(Cap at -1.	
Plan		gularity: Lateral syste							clude the W1A			
rregularity,		egularity listed above		-	·					-0.7		
		System: There are on	-	artical elements of	the lateral syste	m that are not ortho	nonal to ea	ch ot	her	-0.4		
P _{<i>L</i>2}		orner: Both projections	· · · · · ·				-			-0.4		
		pening: There is an o								-0.2		
		ings Out-of-plane Offs	· • •			· · · · · · · · · · · · · · · · · · ·				-0.4	P _{L2} =	
		arity: There is anothe					performanc	e.		-0.7	(Cap at -1.	
Redundancy	The building	has at least two bays	of lateral elements	on each side of th	ne building in ea	ch direction.				0.3		
Pounding	Building is se	eparated from an adja	cent structure by	The floors do not	align vertically	within 2 feet.			(Cap total	-1		
	less than 1.5	% of the height of the	e shorter of the	One building is 2	or more stories	taller than the other			pounding modifiers	-1		
	building and	adjacent structure and	d.	The building is at	the end of the b	lock.			at -0.9)	-0.5		
2 Building		eometry is visible.	u.	-					at -0.5)	-1		
1 Building		ves as the beam in th	ne moment frame.							-0.4		
C1/ RM1	There are roo	of-to-wall ties that are	visible or known fro	om drawings that o	do not rely on cr	oss-grain bending. (Do not com	bine	with post-			
uilding		r retrofit modifier)		Ū		0 0				0.3		
-		has closely spaced, f	ull height interior w	alls (rather than ar	interior space	vith few walls such	as in a ware	hous	e)	0.3		
IRM	Gable walls a	are present.										
/H Detrofit		upplemental seismic bracing system provided between the carriage and the ground. sive seismic retrofit is visible or known from drawings.								1.2	M =	
Retrofit		$\mathbf{S}_{L2} = (\mathbf{S'} + \mathbf{V}_{L2} + \mathbf{P}_{L2})$		nn urawings.					(Transfer			
					to the building's	aciamia porforman				to Le	veriron	
		e or deterioration or a on in the comment box								e.		
-									J	-		
ocation		CTURAL HAZARDS Check "Yes" or "No"	')				Yes	No	Comn	onte		
xterior		inbraced unreinforced		or unbraced unreir	nforced masonry	chimney.	103	110		ionio		
XICHO		vy cladding or heavy				•						
	There is a he	avy canopy over exit	doors or pedestriar	n walkways that ap	pears inadequa	tely supported.						
		inreinforced masonry		· · ·	-							
		on posted on the build	-		-							
		ler adjacent buidling		URM wall or unbr	raced URM para	pet or chimney.						
toria		ed exterior nonstructu llow clay tile or brick p	-	ir or exit corridor								
nterior		ed interior nonstructu	-	or our corridor.				-				
stimated N		Seismic Performanc		ate box and transf	er to Level 1 for	n conslusions)			1			
		ctural hazards with sig				led Nonstructural E	valuation re	comr	mended.			
		ards identified with si				o Detailed Nonstruc						
		uctural hazard threat t	•			etailed Nonstructura			•			

(Adopted from FEMA P-154 Data Collection Form)

LEVEL 1 MODERATELY HIGH Seismicity

(Adopted from FEMA P-154 Data Colle	ction F	orm)											MO	DE	RAT	ELY	HIG	H Se	eismi	icity
PHOTOGRAPH							Ad	dress:							City:					
							Ot	her ID:							Use:					
						Bu	ilding	Name:												
							La	titude:							S _s :					
							Long	gitude:							S ₁:					
							Scr	eener:							Date/	Time:				
						#Stori	es - Ab	ove Gr	ound:		Below	Ground	l:	·····	Year E	Built: .		□ Est		
						Total	Floor A	Area (sf	ťt):						Code	Year:				
						Add	itions:		□ Non	e	□ Yes	, Years	Built:							
						Occup	bancy:		□ Asse	embly	□ Con	nmercia	u D	∃ Eme	ergenc	y Servi	ices	Hist	toric	
									□ Indu	strial	□ Offic	ce		⊐ Scho	ools				vernme	ent
									□ Utilit	y	□ War	rehouse	• C	∃ Resi	identia	ıl,#Unit	s:	□ She	elter	
						Soil T	ype:		□ A: H	ard Ro	ck	[C: So	oft Roo	ck			□ E: \$	Soft So	il
SKETCH									□ B: N	ormal	Rock	[D: Ha	ard So	oil / DN	K		□ F: F	Poor Sc	oil
						Geoha	azards	:		Liquef	action:	[□ Yes,	□ No.	, 🗆 DN	١K				
										•	dslide:		⊐ Yes,							
									Sur	face R	upture:		□ Yes,		,					
						Adjac	ency:		D Pour		•		□ Fallin				aller Adi	acent	Buildin	g
							larities	5:			tical Irre	egularity		-		n Irregi				-
	لہ ــــــــــــــــــــــــــــــــــــ											Irregula					,			
											Chimne		□ Heav	v Clar	ddina c	or Heav	vy Vene	er		
				!!	!		or Fall	ing	□ Para				□ Appe		Ŭ		,			
						Hazar	ds:		□ Othe	•		•	-, 460	maage						
						COMM	IENTS													
						001111														
• + + + + + +																				
$ \frac{1}{1} \frac{1}{1} \frac{1}{1} \frac{1}{1} \frac{1}{1} \frac{1}{1} \frac{1}{1}$																				
$ \frac{1}{1} \frac{1}{1} \frac{1}{1} \frac{1}{1} \frac{1}{1} \frac{1}{1}$																				
							litional	akataba	or or	mmont		noroto i								
	_		BAS		ORE				es or con				Jaye							
BUILDING TYPE	DNK	W1	W1A		S1	S2	S3	S4	S5	C1	C2	-	PC1	PC2	RM1	RM2	URM	MH	BN1	BN2
Basic Score	DINK	4.1	3.7	3.2	2.3	2.2	2.9	2.2	2.0	1.7	2.1	1.4		1.5	1.8	1.8	1.2	2.2	1.2	2.2
		4.1 -1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8		-0.9	-1.0	-1.0	-0.8	NA	-0.8	-0.9
Severe Vertical Irregularity, V_{L1}		-0.8	-0.8	-0.8	-0.7	-0.6	-0.8	-0.6	-0.9	-0.6	-0.6	-0.5		-0.9	-0.6	-0.6	-0.5	NA	-0.5	-0.9
Moderate Vertical Irregularity, V_{L1}		-0.8	-0.8	-0.8	-0.9	-0.8	-0.8	-0.8	-0.0	-0.0	-0.0	-0.5		-0.0	-0.0	-0.0	-0.5	NA	-0.5	-0.8
Plan Irregularity, P _{L1}		-0.8																		
Pre-Code Post Bonchmark			-0.9	-0.9	-0.5	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1		-0.3	-0.5	-0.5	-0.1	-0.3	NA	NA NA
Post-Benchmark Soil Type A or B		1.5 0.3	1.9	2.3 0.9	1.4 0.6	1.4	1.0	1.9 0.9	NA	1.9	2.1 0.8	NA 0.7	2.1 0.9	2.4 0.7	2.1 0.8	2.1	NA	1.2 0.9	NA 0.6	
Soil Type E (1-3 stories)			0.6 -0.1	-0.3	-0.4	0.9 -0.5	0.3	-0.4	0.9 -0.5	0.6	-0.2	-0.4		-0.3	-0.4	0.8 -0.4	0.6 -0.3	-0.5	-0.3	1.0 -1.2
Soil Type E (1-3 stories) Soil Type E (>3 stories)		0.0		-0.3			0.0 NA				-0.2				-0.4			-0.5 NA	-0.3 NA	-1.2 NA
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-0.5	-0.8	-1.2 0.8	-0.7	-0.7		-0.7	-0.6	-0.6		-0.4 0.3		-0.5 0.2	-0.6	-0.7	-0.3 0.2			NA 0.5
Minimum Score, S _{MIN}		1.6	1.2	υ.ö	0.5	0.5	0.9	0.5	0.5	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.4	0.2	0.5
FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$				071	D	74000					ACTIC	NDEC								
			iol			ZARDS	That 7	riace - ^	Dotail	.d		N REQ ed Struc			ion Po	auirod	2			
Exterior: Partial All Sides								ngger A	A Detaile	θÜ										
Interior: None Visible			ered			valuatio				off :1		, unkno			-	other b	ounaing			
Drawing Reviewd:		□ No				potenti	ai (Unle	ess S _{L1}	1 > Cut-	on, If		, score							- . .	
Soil Type Source:				knowr	1)							, other I		•		Dere		a d 2	□ No	
Geohazards Source:				🗆 Fal	ling ha	zards f	rom tall	er adja	cent bui	ilding		ed Nons								
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LEVEL 2 SCREENING PERFORMED?					Ũ	hazards						nonstru					nay req	uire mi	itigatior	n, but
\Box Yes, Final Level 2 Score, S_{L2} :	□ No			-			ge/dete	erioratio	on to the	•		iled eva								
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(Adopted from FEMA P-154 Data Collection Form)

LEVEL 2 (Optional) MODERATELY HIGH Seismicity

ate student with background in s tion to be performed by a Final Level 1 Score: SI = Building Name (Do not consider SMIN Level 1 Irregularity Modifiers: Vertical Irregularity , V₁₁ = Screener Plan Irregularity, P11 = ADJUSTED BASELINE $S' = (S_{11} - V_{11} - P_{11}) =$ Date/ Time STRUCTURAL MODIFIERS TO ADD TO ADJUSTED BASELINE SCORE Statement (If statement is true, circle "Yes" modifier; otherwise cross out the modifier) Subtotals Topic Yes W1 Building : There is at least a full story grade change from one side of the building to the other. -1.3 Vertical Sloping Site -0.3 Non-W1 Building : Ther is at least a full story grade change from one side of the building to the other. Irregularity, Weak -0.6 W1 Building Cripple Wall : An unbraced cripple wall is visible in the crawl space. V_{L2} and/or Soft W1 House over Garage : Underneath an occupied story, there is a garage opening without a steel moment frame, and there is Storv -1.3 less than 8 ft of wall on the same line (for multiple occupied floors above, use 16 ft of wall minimum) (Circle one maximum) W1A Building Open Front : There are openings at the ground story (such as for parking) over at least 50 % of the length of the -1.3 building 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 -1 than 2.0 times the height of the story above. 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 -0.5 between 1.3 and 2.0 times the height of the story above. Setback Vertical elements of the lateral system at an upper story are outboard of those at the story below causing the diaphragm to -1 cantilever at the offset. -0.5 Vertical elements of the lateral system at upper stories are inboard of those at lower stories. -0.3 There is an in-plane offset of the lateral elements that is greater than the length of the elements Short 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 Column/ -0.5 ratios less than 50 % of the nominal height/depth ratio at that level. Pier 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 -0.5 infill walls or adjacent floors that shorten the column. Split Level -0.5 There is a split level at one of the floor levels or at the roof. V12 = Other There is another observable severe vertical irregularity that obviously affects the building's seismic performance. -1 Irregularity -0.5 (Cap at -1.3) here is another observable moderate vertical irregularity that may affect the building's seismic performanc Plan Torsional Irregularity: Lateral system does not appear relatively well distributed in plan in either or both directions. (Do not include the W1A -0.8 open front irregularity listed above) Irregularity, -0.4 Non-parallel System: There are one or more major vertical elements of the lateral system that are not orthogonal to each other. P_{L2} -0.4 Reentrant Corner: Both projections from an interior corner exceed 25 % of the overall plan dimensions in that direction. -0.3 Diaphragm Opening: There is an opening in the diaphragm with a width over 50 % of the total diaphragm width at that level. -0.4 P_{L2} = C1, C2 Buildings Out-of-plane Offset: The exterior beams do not align with the columns in plan. -0.8 (Cap at -1.3) Other Irregularity: There is another observable plan irregularity that obviously affects the building's seismic performance. Redundancy 0.3 The building has at least two bays of lateral elements on each side of the building in each direction. -1 Pounding The floors do not align vertically within 2 feet. Building is separated from an adjacent structure by (Cap total One building is 2 or more stories taller than the other. -1 less than 1.5 % of the height of the shorter of the pounding modifiers The building is at the end of the block. -0.5 ouilding and adjacent structure and: at -0.9) S2 Building "K" bracing geometry is visible. -1 C1 Building Flat plate serves as the beam in the moment frame -0.5 PC1/RM1 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-0.3 Building benchmark or retrofit modifier) 0.3 The building has closely spaced, full height interior walls (rather than an interior space with few walls such as in a warehouse) URM Gable walls are present. -0.4 MН There is a supplemental seismic bracing system provided between the carriage and the ground. 12 Comprehensive seismic retrofit is visible or known from drawings. M = Retrofit 1.4 FINAL LEVEL 2 SCORE, $S_{L2} = (S' + V_{L2} + P_{L2} + M) \ge S_{MIN}$ (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 Comments Location Statement (Check "Yes" or "No") Yes No Fhere is an unbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney. Exterior There is heavy cladding or heavy veneer. There is a heavy canopy over exit doors or pedestrian walkways that appears inadequately supported. There is an unreinforced masonry appendage over exit doors or pedestrian walkways. There is a sign posted on the building that indicates hazardous materials are present. There is a taller adjacent buidling with an unanchored URM wall or unbraced URM parapet or chimney. Other observed exterior nonstructural falling hazard. There are hollow clay tile or brick partitions at any stair or exit corridor. Interior Other observed interior nonstructural falling hazard. Estimated Nonstructural Seismic Performance (Check appropriate box and transfer to Level 1 form conslusions) □ 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 :

LEVEL 1

(Adopted from FEMA P-154 Data Colle	ection F	-orm)													M	ODE	RAT	E Se	ismi	icity
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						Bu	ilding	Name:												
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							Scr	eener:							Date/	Time:				
						#Stori	i es - Ab	ove G	round:		Below	Groun	d:		Year E	Built: .		□ Est		
						Total	Floor A	Area (s	ft):						Code	Year:				
						Add	itions:		□ Non	e	□ Yes	, Years	s Built:.							
						Occu	bancy:		□ Asse	embly	□ Con	nmerci	al	🗆 Em	ergenc	y Servi	ces	Hist	oric	
									🗆 Indu	strial	□ Offi	се		□ Sch	ools			□ Gov	/ernme	ent
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						Soil T	ype:		🗆 A: H	ard Ro	ck		□ C: S	Soft Ro	ck			🗆 E: S	Soft So	il
SKETCH									🗆 B: N	ormal	Rock		□ D: ŀ	Hard So	oil / DN	к		□ F: F	oor So	oil
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BUILDING TYPE	DNK	W1	W1A		S1	S2	S3	S4	S5	C1	C2	C3	PC1	PC2	RM1	RM2	URM	MH	BN1	BN2
	DINK			<u> </u>	-	-		-		-										
Basic Score		5.1	4.5	3.8	2.7	2.6	3.5	2.5	2.7	2.1	2.5	2.0	2.1	1.9	2.1	2.1	1.7	2.9	1.7	3.2
Severe Vertical Irregularity, V_{L1}		-1.4	-1.4	-1.4	-1.2	-1.2	-1.4	-1.1	-1.2	-1.1	-1.2	-1.0	-1.1	-1.0	-1.1	-1.1	-1.0	NA	-1.0	-0.9
Moderate Vertical Irregularity, V_{L1}	$\left -\right $	-0.9	-0.9	-0.9	-0.8	-0.7	-0.9	-0.7	-0.7	-0.7	-0.7	-0.6	-0.7	-0.6	-0.7	-0.7	-0.6	NA	-0.6	-0.6
Plan Irregularity, P _{L1}		-1.4	-1.3	-1.2	-1.0	-0.9	-1.2	-0.9	-0.9	-0.8	-1.0	-0.8	-0.9	-0.8	-0.8	-0.8	-0.7	NA	-0.7	-0.8
Pre-Code		-0.3	-0.5	-0.6	-0.3	-0.2	-0.2	-0.3	-0.3	-0.3	-0.4	-0.3	-0.2	-0.2	-0.2	-0.2	-0.1	-0.5	NA	NA
Post-Benchmark		1.4	2.0	2.5	1.5	1.5	0.8	2.1	NA	2.0	2.3	NA	2.1	2.5	2.3	2.3	NA	1.2	NA	NA
Soil Type A or B		0.7	1.2	1.8	1.1	1.4	0.6	1.5	1.6	1.1	1.5	1.3	1.6	1.3	1.4	1.4	1.3	1.6	1.3	0.8
Soil Type E (1-3 stories)		-1.2	-1.3	-1.4	-0.9	-0.9	-1.0	-0.9	-0.9	-0.7	-1.0	-0.7	-0.8	-0.7	-0.8	-0.8	-0.6	-0.9	-0.6	-1.1
Soil Type E (>3 stories)		-1.8	-1.6	-1.3	-0.9	-0.9	NA	-0.9	-1.0	-0.8	-1.0	-0.8	NA	-0.7	-0.7	-0.8	-0.6	NA	NA	NA
Minimum Score, S _{MIN}		1.6	1.2	0.9	0.6	0.6	0.8	0.6	0.6	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.2	1.5	0.2	0.8
FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$																				
EXTENT OF REVIEW				OTHE	R HAZ	ARDS					ACTIC	N REC	UIREI	D						
Exterior: Partial All Sides		🗆 Aei	rial	Are TI	here H	azards	That T	rigger /	A Detaile	ed	Detaile	ed Stru	ctural E	Evaluat	ion Re	quired	>			
Interior: None Visible		🗆 Ent	tered	Struct	ural Ev	valuatio	n?				□ Yes	, unkno	own bu	ilding t	ype or	other b	uilding			
Drawing Reviewd: 🛛 Yes		□ No		D Pou	unding	potent	ial (Unle	ess S_L	₁ > Cut-	off, if	□ Yes	, score	less th	nan cut	-off					
Soil Type Source:				knowr	n)						□ Yes	, other	hazaro	ls pres	ent				□ No	
Geohazards Source:					,						Detaile	ed Non	structu	ral Eva	luation	Recor	nmend	ed?		
Contact Person:				□ Fal	ling ha	zards f	rom tall	ler adja	icent bu	Ilding	D Yes	, nonst	ructura	al haza	rd iden	tified, s	hould l	oe eval	uated	
LEVEL 2 SCREENING PERFORMED				🗆 Ge	oloaic	hazard	s or So	il Type	F								nay req			n, but
\Box Yes, Final Level 2 Score, S ₁₂ :	□ No				Ũ				on to the								.,		34101	,
Nonstructural Hazards?				-			30/4010	morall							neces zards id		d			к
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Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data (OR) DNK = Do Not Know

(Adopted from FEMA P-154 Data Collection Form)

LEVEL 2 (Optional) MODERATE Seismicity

student with background in seismic Final Level 1 Score: SI = Building Name (Do not consider SMIN Level 1 Irregularity Modifiers: Vertical Irregularity , V₁₁ = Screener Plan Irregularity, P11 = **ADJUSTED BASELINE** $S' = (S_{11} - V_{11} - P_{11}) =$ Date/ Time STRUCTURAL MODIFIERS TO ADD TO ADJUSTED BASELINE SCORE Statement (If statement is true, circle "Yes" modifier; otherwise cross out the modifier) Subtotals Topic Yes W1 Building : There is at least a full story grade change from one side of the building to the other. -1.4 Vertical Sloping Site -0.4 Non-W1 Building : Ther is at least a full story grade change from one side of the building to the other. Irregularity, Weak -0.7 W1 Building Cripple Wall : An unbraced cripple wall is visible in the crawl space. V12 and/or Soft W1 House over Garage : Underneath an occupied story, there is a garage opening without a steel moment frame, and there is Storv -1.4 less than 8 ft of wall on the same line (for multiple occupied floors above, use 16 ft of wall minimum) (Circle one maximum) W1A Building Open Front : There are openings at the ground story (such as for parking) over at least 50 % of the length of the -1.4 building 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 -1.1 than 2.0 times the height of the story above. 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 -0.6 between 1.3 and 2.0 times the height of the story above. Setback Vertical elements of the lateral system at an upper story are outboard of those at the story below causing the diaphragm to -1.2 cantilever at the offset. -0.6 Vertical elements of the lateral system at upper stories are inboard of those at lower stories. -0.4There is an in-plane offset of the lateral elements that is greater than the length of the elements Short 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 Column/ -0.5 ratios less than 50 % of the nominal height/depth ratio at that level. Pier 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 -0.5 infill walls or adjacent floors that shorten the column. Split Level -0.6 There is a split level at one of the floor levels or at the roof. $V_{12} =$ Other There is another observable severe vertical irregularity that obviously affects the building's seismic performance. -1.2 Irregularity -0.6 (Cap at -1.4) here is another observable moderate vertical irregularity that may affect the building's seismic performanc Plan Torsional Irregularity: Lateral system does not appear relatively well distributed in plan in either or both directions. (Do not include the W1A -1 open front irregularity listed above) Irregularity, -0.5 Non-parallel System: There are one or more major vertical elements of the lateral system that are not orthogonal to each other. P_{L2} -0.5 Reentrant Corner: Both projections from an interior corner exceed 25 % of the overall plan dimensions in that direction. -0.3 Diaphragm Opening: There is an opening in the diaphragm with a width over 50 % of the total diaphragm width at that level. -0.4 $P_{L2} =$ C1, C2 Buildings Out-of-plane Offset: The exterior beams do not align with the columns in plan. -' (Cap at -1.4) Other Irregularity: There is another observable plan irregularity that obviously affects the building's seismic performance. Redundancy 0.4 The building has at least two bays of lateral elements on each side of the building in each direction. Pounding The floors do not align vertically within 2 feet. -1.2 Building is separated from an adjacent structure by (Cap total One building is 2 or more stories taller than the other. -1.2 less than 1.5 % of the height of the shorter of the pounding modifiers The building is at the end of the block. -0.6 ouilding and adjacent structure and: at -0.9) S2 Building "K" bracing geometry is visible. -1.2 C1 Building Flat plate serves as the beam in the moment frame -0.5 PC1/RM1 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-0.4 Building benchmark or retrofit modifier) 0.4 The building has closely spaced, full height interior walls (rather than an interior space with few walls such as in a warehouse) URM Gable walls are present. -0.5 MН There is a supplemental seismic bracing system provided between the carriage and the ground. 1.2 Comprehensive seismic retrofit is visible or known from drawings. M = Retrofit 1.4 FINAL LEVEL 2 SCORE, $S_{L2} = (S' + V_{L2} + P_{L2} + M) \ge S_{MIN}$ (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 Comments Location Statement (Check "Yes" or "No") Yes No Fhere is an unbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney. Exterior There is heavy cladding or heavy veneer. There is a heavy canopy over exit doors or pedestrian walkways that appears inadequately supported. There is an unreinforced masonry appendage over exit doors or pedestrian walkways. There is a sign posted on the building that indicates hazardous materials are present. There is a taller adjacent buidling with an unanchored URM wall or unbraced URM parapet or chimney. Other observed exterior nonstructural falling hazard. There are hollow clay tile or brick partitions at any stair or exit corridor. Interior Other observed interior nonstructural falling hazard. Estimated Nonstructural Seismic Performance (Check appropriate box and transfer to Level 1 form conslusions) □ 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 :

(Adopted from FEMA P-154 Data Collection Form)

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BUILDING TYPE	DNK	W1 V	V1A W	2 S1	MODIFI S2	ERS, A S3	ND FII S4	NAL LE S5	VEL 1 C1	SCOR C2	E, S _{L1} C3	PC1	PC2	RM1	RM2	URM	MH	BN1	BN2
Basic Score	DNK	W1 V 6.2	V1A W2 5.9 5.7	2 S1 7 3.8	MODIFI S2 3.9	ERS, A S3 4.4	ND FII S4 4.1	NAL LE S5 4.5	VEL 1 C1 3.3	SCOR C2 4.2	E, S _{L1} C3 3.5	PC1 3.8	3.3	3.7	3.7	3.2	4.6	3.2	3.9
Basic Score Severe Vertical Irregularity, V _{L1}	DNK	W1 V 6.2 -1.5	V1A W 5.9 5. -1.5 -1.	2 S1 7 3.8 5 -1.4	MODIFI S2 3.9 -1.3	ERS, A S3 4.4 -1.6	ND FII S4 4.1 -1.2	NAL LE S5 4.5 -1.3	C1 3.3 -1.3	SCORI C2 4.2 -1.2	E, S _{L1} C3 3.5 -1.1	PC1 3.8 -1.3	3.3 -1.1	3.7 -1.1	3.7 -1.1	3.2 -1.2	4.6 NA	3.2 -1.2	3.9 -1.0
Basic Score Severe Vertical Irregularity, V_{L1} Moderate Vertical Irregularity, V_{L1}	DNK	W1 V 6.2 -1.5 -1.0	V1A W2 5.9 5.7 -1.5 -1. -0.9 -0.	2 S1 3.8 5 -1.4 9 -0.9	S2 3.9 -1.3 -0.8	ERS, A S3 4.4 -1.6 -1.0	ND FII S4 4.1 -1.2 -0.7	NAL LE S5 4.5 -1.3 -0.7	VEL 1 C1 3.3 -1.3 -0.7	C2 4.2 -1.2 -0.7	E, S _{L1} C3 3.5 -1.1 -0.6	PC1 3.8 -1.3 -0.8	3.3 -1.1 -0.6	3.7 -1.1 -0.6	3.7 -1.1 -0.6	3.2 -1.2 -0.7	4.6 NA NA	3.2 -1.2 -0.7	3.9 -1.0 -0.7
Basic Score Severe Vertical Irregularity, V_{L1} Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1}	DNK	W1 V 6.2 -1.5 -1.0 -1.6	V1A Wi 5.9 5.7 -1.5 -1. -0.9 -0. -1.4 -1.	2 S1 3.8 5 -1.4 9 -0.9 3 -1.2	S2 3.9 -1.3 -0.8 -1.1	ERS, A S3 4.4 -1.6 -1.0 -1.4	ND FII S4 4.1 -1.2 -0.7 -1.0	S5 4.5 -1.3 -0.7 -1.1	VEL 1 C1 3.3 -1.3 -0.7 -1.0	SCORI C2 4.2 -1.2 -0.7 -1.0	E, S _{L1} C3 3.5 -1.1 -0.6 -0.9	PC1 3.8 -1.3 -0.8 -1.2	3.3 -1.1 -0.6 -0.9	3.7 -1.1 -0.6 -0.9	3.7 -1.1 -0.6 -0.9	3.2 -1.2 -0.7 -1.0	4.6 NA NA NA	3.2 -1.2 -0.7 -1.0	3.9 -1.0 -0.7 -1.1
Basic Score Severe Vertical Irregularity, V_{L1} Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-Code	DNK	W1 V 6.2 -1.5 -1.0 -1.6 NA	V1A Wi 5.9 5.7 -1.5 -1. -0.9 -0. -1.4 -1. NA NA	2 S1 7 3.8 5 -1.4 9 -0.9 3 -1.2 A NA	MODIFI S2 3.9 -1.3 -0.8 -1.1 NA	ERS, A S3 4.4 -1.6 -1.0 -1.4 NA	ND FII S4 4.1 -1.2 -0.7 -1.0 NA	NAL LE S5 4.5 -1.3 -0.7 -1.1 NA	VEL 1 C1 3.3 -1.3 -0.7 -1.0 NA	SCORI C2 4.2 -1.2 -0.7 -1.0 NA	E, S _{L1} C3 3.5 -1.1 -0.6 -0.9 NA	PC1 3.8 -1.3 -0.8 -1.2 NA	3.3 -1.1 -0.6 -0.9 NA	3.7 -1.1 -0.6 -0.9 NA	3.7 -1.1 -0.6 -0.9 NA	3.2 -1.2 -0.7 -1.0 NA	4.6 NA NA NA	3.2 -1.2 -0.7 -1.0 NA	3.9 -1.0 -0.7 -1.1 NA
Basic Score Severe Vertical Irregularity, V_{L1} Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-Code Post-Benchmark	DNK	W1 V 6.2 -1.5 · -1.0 · -1.6 · NA 2.2	V1A Wi 5.9 5.1 -1.5 -1. -0.9 -0. -1.4 -1. NA NA 2.4 2.5	2 S1 7 3.8 5 -1.4 9 -0.9 3 -1.2 A NA 5 2.0	MODIFI S2 3.9 -1.3 -0.8 -1.1 NA 1.6	ERS, A S3 4.4 -1.6 -1.0 -1.4 NA 1.4	ND FII S4 -1.2 -0.7 -1.0 NA 2.1	NAL LE S5 4.5 -1.3 -0.7 -1.1 NA NA	VEL 1 C1 3.3 -1.3 -0.7 -1.0 NA 2.3	SCORI C2 -1.2 -0.7 -1.0 NA 2.2	E, S _{L1} C3 3.5 -1.1 -0.6 -0.9 NA NA	PC1 3.8 -1.3 -0.8 -1.2 NA 1.9	3.3 -1.1 -0.6 -0.9 NA 2.6	3.7 -1.1 -0.6 -0.9 NA 2.3	3.7 -1.1 -0.6 -0.9 NA 2.3	3.2 -1.2 -0.7 -1.0 NA NA	4.6 NA NA NA NA 1.8	3.2 -1.2 -0.7 -1.0 NA NA	3.9 -1.0 -0.7 -1.1 NA NA
Basic Score Severe Vertical Irregularity, V_{L1} Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B	DNK	W1 V 6.2 - -1.5 - -1.6 - NA - 2.2 - 0.9 -	V1A W1 5.9 5.7 -1.5 -1. -0.9 -0. -1.4 -1. NA NA 2.4 2.4 1.1 1.5	2 S1 7 3.8 5 -1.4 9 -0.9 3 -1.2 A NA 5 2.0 3 1.0	MODIFI S2 3.9 -1.3 -0.8 -1.1 NA 1.6 1.2	ERS, A S3 4.4 -1.6 -1.0 -1.4 NA 1.4 0.8	ND FII S4 -1.2 -0.7 -1.0 NA 2.1 1.3	NAL LE S5 4.5 -1.3 -0.7 -1.1 NA 1.4	VEL 1 C1 3.3 -1.3 -0.7 -1.0 NA 2.3 0.9	SCORI C2 -1.2 -0.7 -1.0 NA 2.2 1.2	E, S _{L1} C3 3.5 -1.1 -0.6 -0.9 NA NA 1.2	PC1 3.8 -1.3 -0.8 -1.2 NA 1.9 1.3	3.3 -1.1 -0.6 -0.9 NA 2.6 1.3	3.7 -1.1 -0.6 -0.9 NA 2.3 1.4	3.7 -1.1 -0.6 -0.9 NA 2.3 1.4	3.2 -1.2 -0.7 -1.0 NA NA 1.3	4.6 NA NA NA NA 1.8 0.9	3.2 -1.2 -0.7 -1.0 NA NA 1.3	3.9 -1.0 -0.7 -1.1 NA NA 0.5
Basic Score Severe Vertical Irregularity, V_{L1} Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories)		W1 V 6.2 - -1.5 - -1.0 - -1.6 - NA - 2.2 - 0.9 - -1.2 -	V1A W. 5.9 5. -1.5 -1. -0.9 -0. -1.4 -1. NA NA 2.4 2.8 1.1 1.5 -1.7 -2.	2 S1 7 3.8 5 -1.4 9 -0.9 3 -1.2 4 NA 5 2.0 3 1.2 3 1.2	MODIFI S2 3.9 -1.3 -0.8 -1.1 NA 1.6 1.2 -1.4	ERS, A S3 4.4 -1.6 -1.0 -1.4 NA 1.4 0.8 -1.0	ND FII S4 -1.2 -0.7 -1.0 NA 2.1 1.3 -1.7	NAL LE S5 4.5 -1.3 -0.7 -1.1 NA NA 1.4 -2.0	VEL 1 C1 3.3 -1.3 -0.7 -1.0 NA 2.3 0.9 -1.4	SCORI C2 4.2 -1.2 -0.7 -1.0 NA 2.2 1.2 -2.0	E, S _{L1} C3 3.5 -1.1 -0.6 -0.9 NA NA 1.2 -1.6	PC1 3.8 -1.3 -0.8 -1.2 NA 1.9 1.3 -1.7	3.3 -1.1 -0.6 -0.9 NA 2.6 1.3 -1.6	3.7 -1.1 -0.6 -0.9 NA 2.3 1.4 -1.7	3.7 -1.1 -0.6 -0.9 NA 2.3 1.4 -1.7	3.2 -1.2 -0.7 -1.0 NA NA 1.3 -1.5	4.6 NA NA NA 1.8 0.9 -2.1	3.2 -1.2 -0.7 -1.0 NA NA 1.3 -1.5	3.9 -1.0 -0.7 -1.1 NA NA 0.5 -0.6
Basic Score Severe Vertical Irregularity, V_{L1} Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories)		W1 V 6.2 - -1.5 - -1.0 - -1.6 - NA - 2.2 - 0.9 - -1.2 - -1.7 -	V1A W. 5.9 5.7 -1.5 -1. -0.9 -0. -1.4 -1. NA NA 2.4 2.4 2.4 2.4 -1.7 -2. -2.0 -2.	2 S1 7 3.8 5 -1.4 9 -0.9 3 -1.2 A NA 5 2.0 5 1.0 3 -1.2 2 -1.2	MODIFI S2 3.9 -1.3 -0.8 -1.1 NA 1.6 1.2 -1.4 -1.4	ERS, A S3 4.4 -1.6 -1.0 -1.4 NA 1.4 0.8 -1.0 NA	ND FII S4 4.1 -1.2 -0.7 -1.0 NA 2.1 1.3 -1.7 -1.7 -1.7	NAL LE S5 4.5 -1.3 -0.7 -1.1 NA 1.4 -2.0 -1.9	VEL 1 C1 3.3 -1.3 -0.7 -1.0 NA 2.3 0.9 -1.4 -1.3	SCORI -1.2 -0.7 -1.0 NA 2.2 1.2 -2.0 -1.9	E, S _{L1} C3 3.5 -1.1 -0.6 -0.9 NA NA 1.2 -1.6 -1.6	PC1 3.8 -1.3 -0.8 -1.2 NA 1.9 1.3 -1.7 NA	3.3 -1.1 -0.6 -0.9 NA 2.6 1.3 -1.6 -1.6	3.7 -1.1 -0.6 -0.9 NA 2.3 1.4 -1.7 -1.6	3.7 -1.1 -0.6 -0.9 NA 2.3 1.4 -1.7 -1.7	3.2 -1.2 -0.7 -1.0 NA NA 1.3 -1.5 -1.4	4.6 NA NA NA 1.8 0.9 -2.1 NA	3.2 -1.2 -0.7 -1.0 NA 1.3 -1.5 NA	3.9 -1.0 -0.7 -1.1 NA NA 0.5 -0.6 NA
Basic Score Severe Vertical Irregularity, V_{L1} Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories) Minimum Score, S_{MIN}		W1 V 6.2 - -1.5 - -1.0 - -1.6 - NA - 2.2 - 0.9 - -1.2 - -1.7 -	V1A W. 5.9 5. -1.5 -1. -0.9 -0. -1.4 -1. NA NA 2.4 2.8 1.1 1.5 -1.7 -2.	2 S1 7 3.8 5 -1.4 9 -0.9 3 -1.2 A NA 5 2.0 5 1.0 3 -1.2 2 -1.2	MODIFI S2 3.9 -1.3 -0.8 -1.1 NA 1.6 1.2 -1.4	ERS, A S3 4.4 -1.6 -1.0 -1.4 NA 1.4 0.8 -1.0	ND FII S4 -1.2 -0.7 -1.0 NA 2.1 1.3 -1.7	NAL LE S5 4.5 -1.3 -0.7 -1.1 NA NA 1.4 -2.0	VEL 1 C1 3.3 -1.3 -0.7 -1.0 NA 2.3 0.9 -1.4	SCORI C2 4.2 -1.2 -0.7 -1.0 NA 2.2 1.2 -2.0	E, S _{L1} C3 3.5 -1.1 -0.6 -0.9 NA NA 1.2 -1.6	PC1 3.8 -1.3 -0.8 -1.2 NA 1.9 1.3 -1.7	3.3 -1.1 -0.6 -0.9 NA 2.6 1.3 -1.6	3.7 -1.1 -0.6 -0.9 NA 2.3 1.4 -1.7	3.7 -1.1 -0.6 -0.9 NA 2.3 1.4 -1.7	3.2 -1.2 -0.7 -1.0 NA NA 1.3 -1.5	4.6 NA NA NA 1.8 0.9 -2.1	3.2 -1.2 -0.7 -1.0 NA NA 1.3 -1.5	3.9 -1.0 -0.7 -1.1 NA NA 0.5 -0.6
Basic Score Severe Vertical Irregularity, V_{L1} Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories)		W1 V 6.2 - -1.5 - -1.0 - -1.6 - NA - 2.2 - 0.9 - -1.2 - -1.7 -	V1A W. 5.9 5.7 -1.5 -1. 0.9 -0. .1.4 -1. NA N/ 2.4 2.4 1.1 1.5 -1.7 -2. -2.0 -2. 2.1 1.5	2 S1 7 3.8 5 -1.4 9 -0.9 3 -1.2 4 NA 5 2.0 3 -1.2 4 1.0 3 -1.2 4 0.9 5 0.9	MODIFI S2 3.9 -1.3 -0.8 -1.1 NA 1.6 1.2 -1.4 0.8	ERS, A S3 4.4 -1.6 -1.0 -1.4 NA 1.4 0.8 -1.0 NA	ND FII S4 4.1 -1.2 -0.7 -1.0 NA 2.1 1.3 -1.7 -1.7 -1.7	NAL LE S5 4.5 -1.3 -0.7 -1.1 NA 1.4 -2.0 -1.9	VEL 1 C1 3.3 -1.3 -0.7 -1.0 NA 2.3 0.9 -1.4 -1.3	SCORI C2 4.2 -1.2 -0.7 -1.0 NA 2.2 1.2 -2.0 -1.9 0.6	E, S _{L1} C3 3.5 -1.1 -0.6 -0.9 NA NA 1.2 -1.6 -1.6 0.5	PC1 3.8 -1.3 -0.8 -1.2 NA 1.9 1.3 -1.7 NA 0.6	3.3 -1.1 -0.6 -0.9 NA 2.6 1.3 -1.6 -1.6 0.4	3.7 -1.1 -0.6 -0.9 NA 2.3 1.4 -1.7 -1.6	3.7 -1.1 -0.6 -0.9 NA 2.3 1.4 -1.7 -1.7	3.2 -1.2 -0.7 -1.0 NA NA 1.3 -1.5 -1.4	4.6 NA NA NA 1.8 0.9 -2.1 NA	3.2 -1.2 -0.7 -1.0 NA 1.3 -1.5 NA	3.9 -1.0 -0.7 -1.1 NA NA 0.5 -0.6 NA
Basic Score Severe Vertical Irregularity, V_{L1} Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories) Minimum Score, S_{MIN}		W1 V 6.2 - -1.5 - -1.0 - -1.6 - NA - 2.2 - 0.9 - -1.2 - -1.7 -	V1A W. 5.9 5.7 -1.5 -1. 0.9 -0. -1.4 -1. NA N/ 2.4 2.3 1.1 1.3 -1.7 -2. -2.0 -2. 2.1 1.3	2 S1 7 3.8 5 -1.4 9 -0.9 3 -1.2 4 NA 5 2.0 3 1.0 3 -1.2 4 1.0 3 -1.2 4 0.9	MODIFI S2 3.9 -1.3 -0.8 -1.1 NA 1.6 1.2 -1.4 -1.4 0.8	ERS, A S3 4.4 -1.6 -1.0 -1.4 NA 1.4 0.8 -1.0 NA 1.2	ND FII S4 4.1 -1.2 -0.7 -1.0 NA 2.1 1.3 -1.7 -1.7 0.8	NAL LE S5 4.5 -1.3 -0.7 -1.1 NA 1.4 -2.0 -1.9 0.9	VEL 1 C1 3.3 -1.3 -0.7 -1.0 NA 2.3 0.9 -1.4 -1.3 0.5	SCORI C2 4.2 -1.2 -0.7 -1.0 NA 2.2 1.2 -2.0 -1.9 0.6 ACTIO	E, S _{L1} C3 3.5 -1.1 -0.6 -0.9 NA NA 1.2 -1.6 -1.6 0.5	PC1 3.8 -1.3 -0.8 -1.2 NA 1.9 1.3 -1.7 NA 0.6	3.3 -1.1 -0.6 -0.9 NA 2.6 1.3 -1.6 -1.6 0.4	3.7 -1.1 -0.6 -0.9 NA 2.3 1.4 -1.7 -1.6 0.6	3.7 -1.1 -0.6 -0.9 NA 2.3 1.4 -1.7 -1.7 0.5	3.2 -1.2 -0.7 -1.0 NA NA 1.3 -1.5 -1.4 0.4	4.6 NA NA NA 1.8 0.9 -2.1 NA	3.2 -1.2 -0.7 -1.0 NA 1.3 -1.5 NA	3.9 -1.0 -0.7 -1.1 NA NA 0.5 -0.6 NA
Basic Score Severe Vertical Irregularity, V_{L1} Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories) Minimum Score, S_{MIN} FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$		W1 V 6.2 - -1.5 - -1.0 - -1.6 - NA - 2.2 - 0.9 - -1.2 - -1.7 -	V1A W. 5.9 5.7 -1.5 -1. 0.9 -0. -1.4 -1. NA N/ 2.4 2.3 1.1 1.3 -1.7 -2. -2.0 -2. 2.1 1.3	2 S1 7 3.8 5 -1.4 9 -0.9 3 -1.2 4 NA 5 2.0 3 1.0 3 -1.2 4 1.0 3 -1.2 4 0.9	MODIFI S2 3.9 -1.3 -0.8 -1.1 NA 1.6 1.2 -1.4 0.8	ERS, A S3 4.4 -1.6 -1.0 -1.4 NA 1.4 0.8 -1.0 NA 1.2	ND FII S4 4.1 -1.2 -0.7 -1.0 NA 2.1 1.3 -1.7 -1.7 0.8	NAL LE S5 4.5 -1.3 -0.7 -1.1 NA 1.4 -2.0 -1.9 0.9	VEL 1 C1 3.3 -1.3 -0.7 -1.0 NA 2.3 0.9 -1.4 -1.3 0.5	SCORI C2 4.2 -1.2 -0.7 -1.0 NA 2.2 1.2 -2.0 -1.9 0.6 ACTIO	E, S _{L1} C3 3.5 -1.1 -0.6 -0.9 NA NA 1.2 -1.6 -1.6 0.5	PC1 3.8 -1.3 -0.8 -1.2 NA 1.9 1.3 -1.7 NA 0.6	3.3 -1.1 -0.6 -0.9 NA 2.6 1.3 -1.6 -1.6 0.4	3.7 -1.1 -0.6 -0.9 NA 2.3 1.4 -1.7 -1.6 0.6	3.7 -1.1 -0.6 -0.9 NA 2.3 1.4 -1.7 -1.7 0.5	3.2 -1.2 -0.7 -1.0 NA NA 1.3 -1.5 -1.4 0.4	4.6 NA NA NA 1.8 0.9 -2.1 NA	3.2 -1.2 -0.7 -1.0 NA 1.3 -1.5 NA	3.9 -1.0 -0.7 -1.1 NA NA 0.5 -0.6 NA
Basic Score Severe Vertical Irregularity, V_{L1} Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories) Minimum Score, S_{MIN} FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW		W1 V 6.2 - -1.5 - -1.0 - -1.6 - NA - 2.2 - 0.9 - -1.2 - -1.2 - 2.2 - 0.9 - 2.7 -	V1A W. 5.9 5.7 -1.5 -1. -0.9 -0. 1.4 -1. NA NA 2.4 2.8 1.1 1.3 -1.7 -2. -2.0 -2. 2.1 1.8 I Are	2 S1 7 3.8 5 -1.4 9 -0.9 3 -1.2 A NA 5 2.0 3 -1.2 3 -1.2 3 -1.2 3 -1.2 2 -1.2 5 0.9	MODIFI S2 3.9 -1.3 -0.8 -1.1 NA 1.6 1.2 -1.4 -1.4 0.8	ERS, A S3 4.4 -1.6 -1.0 -1.4 NA 1.4 0.8 -1.0 NA 1.2 That Tr	ND FII S4 4.1 -1.2 -0.7 -1.0 NA 2.1 1.3 -1.7 -1.7 0.8	NAL LE S5 4.5 -1.3 -0.7 -1.1 NA 1.4 -2.0 -1.9 0.9	VEL 1 C1 3.3 -1.3 -0.7 -1.0 NA 2.3 0.9 -1.4 -1.3 0.5	SCORI C2 4.2 -1.2 -0.7 -1.0 NA 2.2 1.2 -2.0 -1.9 0.6 ACTIO Detaile	E, S _{L1} C3 3.5 -1.1 -0.6 -0.9 NA NA 1.2 -1.6 -1.6 0.5	PC1 3.8 -1.3 -0.8 -1.2 NA 1.9 1.3 -1.7 NA 0.6 QUIREI ctural E	3.3 -1.1 -0.6 -0.9 NA 2.6 1.3 -1.6 -1.6 0.4	3.7 -1.1 -0.6 -0.9 NA 2.3 1.4 -1.7 -1.6 0.6	3.7 -1.1 -0.6 -0.9 NA 2.3 1.4 -1.7 -1.7 0.5	3.2 -1.2 -0.7 -1.0 NA NA 1.3 -1.5 -1.4 0.4	4.6 NA NA NA 1.8 0.9 -2.1 NA	3.2 -1.2 -0.7 -1.0 NA 1.3 -1.5 NA	3.9 -1.0 -0.7 -1.1 NA NA 0.5 -0.6 NA
Basic Score Severe Vertical Irregularity, V_{L1} Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories) Minimum Score, S_{MIN} FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW Exterior: Partial All Sides		W1 V 6.2 - -1.5 - -1.6 - -1.6 - NA - 2.2 - 0.9 - -1.2 - -1.7 - 2.7 -	V1A W. 5.9 5. -1.5 -1. 0.9 -0. .1.4 -1. NA N/ 2.4 2.4 1.1 1.3 -1.7 -2. -2.0 -2. 2.1 1.4 NA N/ VA N/ 2.4 2.5 1.1 1.5 -1.1 1.5 -1.1 1.5 -1.1 1.5 -1.1 1.5 -1.1 1.5 -1.1 1.5 -1.1 1.5 -1.1 1.5 -1.1 1.5 -1.2 1.5	2 S1 7 3.8 5 -1.4 9 -0.9 3 -1.2 4 NA 5 2.0 3 -1.2 4 NA 5 2.0 3 -1.2 4 NA 5 2.0 3 -1.2 4 0.9 3 -1.2 5 0.9 IER HAZ There Haz Ctural E	MODIFI S2 3.9 -1.3 -0.8 -1.1 NA 1.6 1.2 -1.4 -1.4 0.8	ERS, A S3 4.4 -1.6 -1.0 -1.4 NA 1.4 0.8 -1.0 NA 1.2 That Tr n?	ND FII S4 4.1 -1.2 -0.7 -1.0 NA 2.1 1.3 -1.7 -1.7 0.8	NAL LE S5 4.5 -1.3 -0.7 -1.1 NA 1.4 -2.0 -1.9 0.9	VEL 1 C1 3.3 -1.3 -0.7 -1.0 NA 2.3 0.9 -1.4 -1.3 0.5	SCORI C2 4.2 -1.2 -0.7 -1.0 NA 2.2 1.2 -2.0 -1.9 0.6 ACTIO Detaile	E, S _{L1} C3 3.5 -1.1 -0.6 -0.9 NA NA 1.2 -1.6 -1.6 0.5 DN REC ed Stru	PC1 3.8 -1.3 -0.8 -1.2 NA 1.9 1.3 -1.7 NA 0.6 QUIREI ctural E	3.3 -1.1 -0.6 -0.9 NA 2.6 1.3 -1.6 -1.6 0.4 D Evaluati	3.7 -1.1 -0.6 -0.9 NA 2.3 1.4 -1.7 -1.6 0.6 vpe or 0	3.7 -1.1 -0.6 -0.9 NA 2.3 1.4 -1.7 -1.7 0.5	3.2 -1.2 -0.7 -1.0 NA NA 1.3 -1.5 -1.4 0.4	4.6 NA NA NA 1.8 0.9 -2.1 NA	3.2 -1.2 -0.7 -1.0 NA 1.3 -1.5 NA	3.9 -1.0 -0.7 -1.1 NA NA 0.5 -0.6 NA
Basic Score Severe Vertical Irregularity, V_{L1} Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories) Minimum Score, S_{MIN} FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW Exterior: Partial All Sides Interior: None Visible		W1 V 6.2 -1.5 -1.6 -1.6 NA 2.2 0.9 -1.2 -1.7 -1.7 -2.7 2.7 Aeria □ Enter □ No	V1A W. 5.9 5.7 -1.5 -1. 0.9 -0. .1.4 -1. NA N/ 2.4 2.4 1.1 1.3 1.7 -2. 2.0 -2. 2.1 1.4 H Are I GOTI I F	2 S1 7 3.8 5 -1.4 9 -0.9 3 -1.2 4 NA 5 2.0 3 -1.2 4 NA 5 2.0 3 -1.2 4 0.9 3 -1.2 5 0.9 HER HAX There H ctural E	MODIFI S2 3.9 -1.3 -0.8 -1.1 NA 1.6 1.2 -1.4 -1.4 0.8 ZARDS lazards valuatio	ERS, A S3 4.4 -1.6 -1.0 -1.4 NA 1.4 0.8 -1.0 NA 1.2 That Tr n?	ND FII S4 4.1 -1.2 -0.7 -1.0 NA 2.1 1.3 -1.7 -1.7 0.8	NAL LE S5 4.5 -1.3 -0.7 -1.1 NA 1.4 -2.0 -1.9 0.9	VEL 1 C1 3.3 -1.3 -0.7 -1.0 NA 2.3 0.9 -1.4 -1.3 0.5	SCORI C2 4.2 -1.2 -0.7 -1.0 NA 2.2 1.2 -2.0 -1.9 0.6 ACTIO Detaile □ Yes	E, S _{L1} C3 3.5 -1.1 -0.6 -0.9 NA NA 1.2 -1.6 -1.6 0.5 DN REC ad Stru , unkno	PC1 3.8 -1.3 -0.8 -1.2 NA 1.9 1.3 -1.7 NA 0.6 DUIRED ctural E pown but eless the	3.3 -1.1 -0.6 -0.9 NA 2.6 1.3 -1.6 -1.6 0.4 D Evaluati iilding ty	3.7 -1.1 -0.6 -0.9 NA 2.3 1.4 -1.7 -1.6 0.6	3.7 -1.1 -0.6 -0.9 NA 2.3 1.4 -1.7 -1.7 0.5	3.2 -1.2 -0.7 -1.0 NA NA 1.3 -1.5 -1.4 0.4	4.6 NA NA NA 1.8 0.9 -2.1 NA	3.2 -1.2 -0.7 -1.0 NA 1.3 -1.5 NA	3.9 -1.0 -0.7 -1.1 NA NA 0.5 -0.6 NA
Basic Score Severe Vertical Irregularity, V_{L1} Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories) Minimum Score, S_{MIN} FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW Exterior: Partial All Sides Interior: None Visible Drawing Reviewd: Yes		W1 V 6.2 -1.5 -1.0 -1.6 -1.6 -1.6 -1.6 -1.6 -1.7 -1.2 -1.7 -	V1A W. 5.9 5. . -1.5 -1. 0.9 -0. .1.4 -1. NA N/ 2.4 2.4 1.1 1.3 1.7 -2. -2.0 -2. 2.1 1.4 I Are red Stru □ F kno	2 S1 7 3.8 5 -1.4 9 -0.9 3 -1.2 4 NA 5 2.0 3 -1.2 4 NA 5 2.0 3 -1.2 2 -1.2 5 0.9 HER HAZ There H ctural E ounding wn)	MODIFI S2 3.9 -1.3 -0.8 -1.1 NA 1.6 1.2 -1.4 0.8	ERS, A S3 4.4 -1.6 -1.0 -1.4 NA 1.4 0.8 -1.0 NA 1.2 That Tr n? al (Unle	ND FII S4 4.1 -1.2 -0.7 -1.0 NA 2.1 1.3 -1.7 -1.7 0.8	NAL LE S5 4.5 -1.3 -0.7 -1.1 NA 1.4 -2.0 -1.9 0.9	VEL 1 C1 3.3 -1.3 -0.7 -1.0 NA 2.3 0.9 -1.4 -1.3 0.5	SCORI C2 4.2 -1.2 -0.7 -1.0 NA 2.2 1.2 -2.0 -1.9 0.6 ACTIO Detaile □ Yes □ Yes □ Yes	E, S _{L1} C3 3.5 -1.1 -0.6 -0.9 NA NA 1.2 -1.6 -1.6 0.5 N REC ed Stru , unkno , score , other	PC1 3.8 -1.3 -0.8 -1.2 NA 1.9 1.3 -1.7 NA 0.6 DUIREI ctural E pown but e less th hazaro	3.3 -1.1 -0.6 -0.9 NA 2.6 1.3 -1.6 -1.6 0.4 D Evaluation types the second s	3.7 -1.1 -0.6 -0.9 NA 2.3 1.4 -1.7 -1.6 0.6	3.7 -1.1 -0.6 -0.9 NA 2.3 1.4 -1.7 -1.7 0.5 quired?	3.2 -1.2 -0.7 -1.0 NA 1.3 -1.5 -1.4 0.4	4.6 NA NA NA 1.8 0.9 -2.1 NA 2.5	3.2 -1.2 -0.7 -1.0 NA 1.3 -1.5 NA 0.2	3.9 -1.0 -0.7 -1.1 NA NA 0.5 -0.6 NA
Basic Score Severe Vertical Irregularity, V_{L1} Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories) Minimum Score, S_{MIN} FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW Exterior: Partial Interior: None Drawing Reviewd: Yes Soil Type Source:		W1 V 6.2 -1.5 - -1.6 - NA 2.2 - 0.9 - 1.2 - -1.7 - 2.7 - 2.7 - Enter □ No	V1A W. 5.9 5. . -1.5 -1. 0.9 -0. .1.4 -1. NA N/ 2.4 2.4 1.1 1.3 1.7 -2. -2.0 -2. 2.1 1.4 I Are red Stru □ F kno	2 S1 7 3.8 5 -1.4 9 -0.9 3 -1.2 4 NA 5 2.0 3 -1.2 4 NA 5 2.0 3 -1.2 2 -1.2 5 0.9 HER HAZ There H ctural E ounding wn)	MODIFI S2 3.9 -1.3 -0.8 -1.1 NA 1.6 1.2 -1.4 -1.4 0.8 ZARDS lazards valuatio	ERS, A S3 4.4 -1.6 -1.0 -1.4 NA 1.4 0.8 -1.0 NA 1.2 That Tr n? al (Unle	ND FII S4 4.1 -1.2 -0.7 -1.0 NA 2.1 1.3 -1.7 -1.7 0.8	NAL LE S5 4.5 -1.3 -0.7 -1.1 NA 1.4 -2.0 -1.9 0.9	VEL 1 C1 3.3 -1.3 -0.7 -1.0 NA 2.3 0.9 -1.4 -1.3 0.5	SCORI C2 4.2 -1.2 -0.7 -1.0 NA 2.2 1.2 -2.0 -1.9 0.6 ACTIO Detaile Yes Detaile	E, S _{L1} C3 3.5 -1.1 -0.6 -0.9 NA NA 1.2 -1.6 -1.6 0.5 ON REC ed Stru , unkno , score , other ed Non	PC1 3.8 -1.3 -0.8 -1.2 NA 1.9 1.3 -1.7 NA 0.6 DUIREI ctural E pown but e less th hazard structu	3.3 -1.1 -0.6 -0.9 NA 2.6 1.3 -1.6 -1.6 0.4 D Evaluation to the spressed of the spr	3.7 -1.1 -0.6 -0.9 NA 2.3 1.4 -1.7 -1.6 0.6 ion Rec ype or c -off ent luation	3.7 -1.1 -0.6 -0.9 NA 2.3 1.4 -1.7 -1.7 0.5 other b Recor	3.2 -1.2 -0.7 -1.0 NA NA 1.3 -1.5 -1.4 0.4	4.6 NA NA NA 1.8 0.9 -2.1 NA 2.5	3.2 -1.2 -0.7 -1.0 NA 1.3 -1.5 NA 0.2	3.9 -1.0 -0.7 -1.1 NA NA 0.5 -0.6 NA
Basic Score Severe Vertical Irregularity, V_{L1} Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories) Minimum Score, S_{MIN} FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW Exterior: Partial Interior: None Drawing Reviewd: Yes Soil Type Source: Geohazards Source:		W1 V 6.2 -1.5 - -1.6 - NA 2.2 - 0.9 - 1.2 - -1.7 - 2.7 - 2.7 - Enter □ No	V1A W. 5.9 5. -1.5 -1. 0.9 -0. .1.4 -1. NA N/ 2.4 2.4 1.1 1.3 1.7 -2. -2.0 -2. 2.1 1.4 I Are red Stru □ F kno	2 S1 7 3.8 5 -1.4 9 -0.9 3 -1.2 4 NA 5 2.0 3 -1.2 4 1.0 3 -1.2 2 -1.2 2 -1.2 5 0.9 IER HAZ There H ctural E ounding wn) alling ha	MODIFI S2 3.9 -1.3 -0.8 -1.1 NA 1.6 1.2 -1.4 0.8	ERS, A S3 4.4 -1.6 -1.0 -1.4 NA 1.4 0.8 -1.0 NA 1.2 That Tr n? al (Unle	ND FII S4 4.1 -1.2 -0.7 -1.0 NA 2.1 1.3 -1.7 -1.7 0.8	NAL LE S5 4.5 -1.3 -0.7 -1.1 NA 1.4 -2.0 -1.9 0.9	VEL 1 C1 3.3 -1.3 -0.7 -1.0 NA 2.3 0.9 -1.4 -1.3 0.5	SCORI C2 4.2 -1.2 -0.7 -1.0 NA 2.2 1.2 -2.0 -1.9 0.6 ACTIO Detaile Yes Detaile CYes Detaile	E, S _{L1} C3 3.5 -1.1 -0.6 -0.9 NA NA 1.2 -1.6 -1.6 0.5 DN REC ed Stru , unkno , score , other ed Non	PC1 3.8 -1.3 -0.8 -1.2 NA 1.9 1.3 -1.7 NA 0.6 QUIREI ctural E pown bu e less the hazarce structural ctural and a structural ctural a structural a structural a structural ctural a structural ctural	3.3 -1.1 -0.6 -0.9 NA 2.6 1.3 -1.6 -1.6 0.4 Evaluation to the second	3.7 -1.1 -0.6 -0.9 NA 2.3 1.4 -1.7 -1.6 0.6 ion Rec ype or c -off ent luation rd ident	3.7 -1.1 -0.6 -0.9 NA 2.3 1.4 -1.7 -1.7 0.5 other b Record tified, s	3.2 -1.2 -0.7 -1.0 NA 1.3 -1.5 -1.4 0.4 puilding	4.6 NA NA NA 1.8 0.9 -2.1 NA 2.5	3.2 -1.2 -0.7 -1.0 NA 1.3 -1.5 NA 0.2	3.9 -1.0 -0.7 -1.1 NA NA 0.5 -0.6 NA 0.9
Basic Score Severe Vertical Irregularity, V_{L1} Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories) Minimum Score, S_{MIN} FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ Exterior: Partial Partial All Sides Interior: None Drawing Reviewd: Yes Soil Type Source: Geohazards Source: Contact Person: Source		W1 V 6.2 -1.5 - -1.6 - NA 2.2 - 0.9 - 1.2 - -1.7 - 2.7 - 2.7 - Enter □ No	V1A W. 5.9 5.7 -1.5 -1. 0.9 -0. -1.4 -1. NA N/ 2.4 2.3 1.1 1.3 -1.7 -2. -2.0 -2. 2.1 1.3 I Are sed Stru □ F kno □ □ C	2 S1 7 3.8 5 -1.4 9 -0.9 3 -1.2 4 NA 5 2.0 3 -1.2 4 NA 5 2.0 3 -1.2 2 -1.2 5 0.9	MODIFI S2 3.9 -1.3 -0.8 -1.1 NA 1.6 1.2 -1.4 0.8	ERS, A S3 4.4 -1.6 -1.0 -1.4 NA 1.4 0.8 -1.0 NA 1.2 That Tr n? al (Unle rom talle	ND FII S4 4.1 -1.2 -0.7 -1.0 NA 2.1 1.3 -1.7 -1.7 0.8 aigger A ass S L ₁ er adja Type	NAL LE S5 4.5 -1.3 -0.7 -1.1 NA 1.4 -2.0 -1.9 0.9 A Detaile a > Cut- cent built	VEL 1 C1 3.3 -1.3 -0.7 -1.0 NA 2.3 0.9 -1.4 -1.3 0.5 ed off, if	SCORI C2 4.2 -1.2 -0.7 -1.0 NA 2.2 1.2 -2.0 -1.9 0.6 ACTIO Detaile Q Yes Q Yes Detaile Q Yes Detaile Q Yes Detaile	E, S _{L1} C3 3.5 -1.1 -0.6 -0.9 NA NA 1.2 -1.6 -1.6 -1.6 0.5 N REC ed Stru , unkno , score , other ed Non , nonstr	PC1 3.8 -1.3 -0.8 -1.2 NA 1.9 1.3 -1.7 NA 0.6 DUIREI ctural E pown but e less the hazard structural ctural	3.3 -1.1 -0.6 -0.9 NA 2.6 1.3 -1.6 -1.6 0.4 D Evaluati ilding ty han cut- ds prese ral Eval al hazar	3.7 -1.1 -0.6 -0.9 NA 2.3 1.4 -1.7 -1.6 0.6 vpe or off ent luation rd ident ds exist	3.7 -1.1 -0.6 -0.9 NA 2.3 1.4 -1.7 -1.7 0.5 quired? other b Recor tified, s t that m	3.2 -1.2 -0.7 -1.0 NA 1.3 -1.5 -1.4 0.4 puilding	4.6 NA NA NA 1.8 0.9 -2.1 NA 2.5	3.2 -1.2 -0.7 -1.0 NA 1.3 -1.5 NA 0.2	3.9 -1.0 -0.7 -1.1 NA NA 0.5 -0.6 NA 0.9
Basic Score Severe Vertical Irregularity, V_{L1} Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (>3 stories) Minimum Score, S_{MIN} FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW Exterior: Partial Drawing Reviewd: Yes Soil Type Source: Geohazards Source: Contact Person: LEVEL 2 SCREENING PERFORMED		W1 V 6.2 -1.5 -1.0 -1.6 -1.6 -1.6 -1.6 -1.6 -1.7 -1.2 -1.2 -1.7 -	V1A W. 5.9 5.7 -1.5 -1. 0.9 -0. -1.4 -1. NA N/ 2.4 2.3 1.1 1.3 -1.7 -2. -2.0 -2. 2.1 1.3 I Are sed Stru □ F kno □ □ C	2 S1 7 3.8 5 -1.4 9 -0.9 3 -1.2 4 NA 5 2.0 3 -1.2 4 NA 5 2.0 3 -1.2 4 0.9 3 -1.2 5 0.9 IER HAX IER HAX recounding wn) alling hat ignificar	MODIFI S2 3.9 -1.3 -0.8 -1.1 NA 1.6 1.2 -1.4 0.8 ZARDS lazards valuation potentian azards fr hazards	ERS, A S3 4.4 -1.6 -1.0 -1.4 NA 1.4 0.8 -1.0 NA 1.2 That Tr n? al (Unle rom talle	ND FII S4 4.1 -1.2 -0.7 -1.0 NA 2.1 1.3 -1.7 -1.7 0.8 aigger A ass S L ₁ er adja Type	NAL LE S5 4.5 -1.3 -0.7 -1.1 NA 1.4 -2.0 -1.9 0.9 A Detaile a > Cut- cent built	VEL 1 C1 3.3 -1.3 -0.7 -1.0 NA 2.3 0.9 -1.4 -1.3 0.5 ed off, if	SCORI C2 4.2 -1.2 -0.7 -1.0 NA 2.2 1.2 -2.0 -1.9 0.6 ACTIC Detaile Yes Otal Yes Detaile Yes Detaile Yes Detaile Yes a detaile	E, S _{L1} C3 3.5 -1.1 -0.6 -0.9 NA NA 1.2 -1.6 -1.6 -1.6 0.5 N REC ed Stru , unkno , score , other ed Non , nonstr iled eva	PC1 3.8 -1.3 -0.8 -1.2 NA 1.9 1.3 -1.7 NA 0.6 DUIRED ctural E bown but e less the hazard structural aluation	3.3 -1.1 -0.6 -0.9 NA 2.6 1.3 -1.6 -1.6 0.4 D Evaluation tilding ty han cut- ds preserved ral Evaluation the second sec	3.7 -1.1 -0.6 -0.9 NA 2.3 1.4 -1.7 -1.6 0.6 vpe or c -off ent luation rd ident ds exist necess	3.7 -1.1 -0.6 -0.9 NA 2.3 1.4 -1.7 -1.7 0.5 quired? other b Record tified, so t that m sary	3.2 -1.2 -0.7 -1.0 NA 1.3 -1.5 -1.4 0.4 puilding mmend should hay req	4.6 NA NA NA 1.8 0.9 -2.1 NA 2.5	3.2 -1.2 -0.7 -1.0 NA 1.3 -1.5 NA 0.2	3.9 -1.0 -0.7 -1.1 NA 0.5 -0.6 NA 0.9

(Adopted from FEMA P-154 Data Collection Form)

uilding Nan	ne :		al Level 1 Score: S ₁₁ =		(Do	not coi	nsider S _{MIN}						
reener	:	Level 1 Irregu	<i>Ilarity Modifiers:</i> Vertical Irregularity, V ₁₁ =	Plar	n Irregularity, P _{/1} =								
te/ Time		ADJUS	STED BASELINE $S' = (S_{11} - V_{11} - P_{11}) =$										
RUCTURA	L MODIFIER	S TO ADD TO ADJUSTED BASELINE											
Торіс		Statement (If statement i	s true, circle "Yes" modifier; otherwise cross out the mod	difier)		Yes	Subtotals						
Vertical	Sloping Site	W1 Building : There is at least a full s	tory grade change from one side of the building to the other.			-1.5							
regularity,	Cloping Cite	Non-W1 Building : Ther is at least a fu	Ill story grade change from one side of the building to the othe	er.		-0.4							
V _{L2}	Weak	W1 Building Cripple Wall : An unbrac	ed cripple wall is visible in the crawl space.			-0.7							
V L2	and/or Soft Story	W1 House over Garage : Underneath	an occupied story, there is a garage opening without a steel r	moment fra	ame, and there is								
	,	less than 8 ft of wall on the same line	(for multiple occupied floors above, use 16 ft of wall minimum	ר)		-1.5							
	, maximum)	W1A Building Open Front : There are	openings at the ground story (such as for parking) over at lea	ast 50 % of	the length of the								
		building.			C I	-1.5							
			stem at any story is less than 50 % of that at story above or h	hoight of a	ny story is more								
				leight of al	ly story is more	-1.3							
		than 2.0 times the height of the story a				-1.5							
		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.			-0.6							
	Setback	Vertical elements of the lateral systen	n at an upper story are outboard of those at the story below ca	ausing the	diaphragm to								
		cantilever at the offset.				-1.3							
			n at upper stories are inboard of those at lower stories.			-0.6							
			al elements that is greater than the length of the elements.			-0.4							
	Short	C1,C2,C3,PC1,PC2,RM1,RM2 : At lea	ast 20 % of columns (or piers) along a column line in the later	al system l	have height/depth								
	Column/	ratios less than 50 % of the nominal h	eight/depth ratio at that level.			-0.6							
	Pier		column depth (or pier width) is less than one half of the depth	of the spar	ndrel, or there are								
						-0.6							
	Split Level												
	Other	Image: There is a split level at one of the floor levels or at the roof. - There is another observable severe vertical irregularity that obviously affects the building's seismic performance. -											
	1	There is another observable severe vehical inegalative interovidually and the ballating second performance.											
Plan			ear relatively well distributed in plan in either or both directions		nclude the W1A								
egularity,	open front irr	egularity listed above)				-1.1							
0		- · ·	vertical elements of the lateral system that are not orthogonal	I to oach of	thor	-0.6							
P _{<i>L</i>2}			vertical elements of the lateral system that are not orthogonal corner exceed 25 % of the overall plan dimensions in that dire			-0.6							
			phragm with a width over 50 % of the total diaphragm width a			-0.4							
			beams do not align with the columns in plan.		•	-0.5	P _{L2} =						
		- • · · · · · · · · · · · · · · · · · ·	irregularity that obviously affects the building's seismic perfor	rmance			(Cap at -1.6)						
dundancy			ts on each side of the building in each direction.	manee		0.4	,						
Pounding		eparated from an adjacent structure by			(Cap total	-1.3							
5	Ŭ	% of the height of the shorter of the	One building is 2 or more stories taller than the other.			-1.3							
			The building is at the end of the block.		pounding modifiers	-0.6							
Building		adjacent structure and: eometry is visible.	The building is at the end of the block.		at -0.9)	-0.0							
Building		ves as the beam in the moment frame				-0.6							
<u> </u>						-0.0							
C1/ RM1	There are roo	of to-wall ties that are visible of known	from drawings that do not rely on cross-grain bending. (Do no	aniamos x	with post-								
ilding	benchmark o	r retrofit modifier)				0.4							
20.4			walls (rather than an interior space with few walls such as in a	a warehous	se)	0.4 -0.6							
RM H		walls are present.											
trofit		are is a supplemental seismic bracing system provided between the carriage and the ground. mprehensive seismic retrofit is visible or known from drawings.											
		$S_{L2} = (S' + V_{L2} + P_{L2} + M) \ge S_{MIN}$:			(Transfer	1.6 to Le v	vel 1 Form						
			that negatively affects the building's seismic performance:		•	10 20							
	-		ate on the Level 1 form that detailed evaluation is required inc			e.							
SERVABI	E NONSTRU	CTURAL HAZARDS											
cation	•	Check "Yes" or "No")		Yes No	Comm	ents							
erior			t or unbraced unreinforced masonry chimney.										
		vy cladding or heavy veneer.											
			an walkways that appears inadequately supported.										
		inreinforced masonry appendage over	· · ·	$+ \square$									
		gn posted on the building that indicates	· ·	++									
			ed URM wall or unbraced URM parapet or chimney.	++	 								
		ed exterior nonstructural falling hazard	I.	1 1	1								
<u>.</u>		•	tair or exit corridor	+-+									
erior	There are ho	llow clay tile or brick partitions at any s red interior nonstructural falling hazard.		\mp									

 $\hfill\square$ Nonstructural hazards identified with significant threat to occupant life safety. --> But no Detailed Nonstructural Evaluation required. --> No Detailed Nonstructural Evaluation required.

Low or no nonstructural hazard threat to occupant life safety.

Comments :

LEVEL 2 (Optional) **LOW Seismicity**