SWEET HOME SCHOOL DISTRICT

REQUEST FOR PROPOSALS FOR ENGINEERING SERVICES

Oak Heights Elementary School Seismic Rehabilitation Project

CONTRACT ADMINISTRATOR: Kevin Strong Business Manager Sweet Home School District Phone: 541-367-7122 Fax: 541-367-7104 kevin.strong@sweethome.k12.or.us

www.sweethome.k12.or.us

ISSUE DATE: RFP CLOSING (DUE) DATE Wednesday, April 26, 2023 Friday, May 19, 2023 at 4 p.m.

NO LATE RESPONSES WILL BE ACCEPTED

SUBMITTAL LOCATION

Sweet Home School District Business Office Attention: Kevin Strong 1920 Long Street Sweet Home, OR 97386

Introduction:

The Sweet Home School District (the "District") is seeking proposals from firms for the structural, mechanical and electrical design for the Seismic Rehabilitation of Oak Heights Elementary School (the "Project"), located at 605 Elm Street, Sweet Home, OR 97386.

In April 2023 the District was awarded a Seismic Rehabilitation Grant ("SRG") for the project through the Infrastructure Finance Authority: Business Oregon, based on the application prepared by ZCS Engineering & Architecture. The intent of this RFP is for the consultant to provide an integrated design solution for the entire building. As part of this grant, a preliminary rehabilitation feasibility report was prepared for each portion of the project and is enclosed. The District was awarded \$2,500,000 for the design and construction of the project.

The approximate size of the area at Oak Heights Elementary School to be seismically retrofitted is 32,500 square feet. Most of the school was constructed in the 1950s with additions in the 1970s.

The District is currently working with GLAS Architects for architectural consulting for the project including some modifications to the building layout that will take place during construction allowing for a better learning environment.

The District intends to use either the typical Design-Bid-Build procurement project delivery method or the CM/GC procurement project delivery method for this Project. Pre-Design/Schematic Design would begin immediately upon award and approval of the resulting design contract. Construction is anticipated to occur during the summer of 2024, The Project may be vacated during the construction period.

Scope of Work:

Perform a seismic evaluation of the building, per American Society of Civil Engineers ("ASCE") Standard 41-17 "Seismic Evaluation of Existing Buildings". Develop rehabilitation and mitigation strategies per ASCE Standard 41-17 and the 2019 Oregon Structural Specialty Code ("OSSC"). It is the wish of the District to rehabilitate the building to meet the rehabilitation objective of Immediate Occupancy.

Based on research and evaluation efforts performed during the Seismic Rehabilitation Grant ("SRG") in preparation for the project, the structural improvements listed in the enclosed evaluation report should be considered for the existing structure. Preliminary rehabilitation drawings (enclosed) were prepared to assist in defining the necessary scope of potential rehabilitation work for this structure.

The scope of work also includes the following services:

- Develop all construction documents required for a CM/GC or hard bid construction delivery methods.
 - 1. Assist the District in the selection process for a CM/GC firm if CM/GC is selected as the method of delivery. The selection process will include the preparation and administration of the "Facts and Finding Report" and the "RFP" for the proposed alternative contracting method as outlined in OAR 137-049-0600.

- Assist the District with the entitlement of the project through the Authorities Having Jurisdiction and the State Historical Preservation Office.
- Provide all construction administration services necessary for the implementation of the project. Services include but are not limited to: Administering a project Log, RFI administration, manage progress meetings, submittal review, change order review and verification of certified pay requests.
- Assist District Staff with SRG reporting requirements as required.
- Conduct project closeout procedures as required by the SRG.

Selection Process:

This Request for Proposals ("RFP") and the selection process will be conducted pursuant to the terms of this RFP, the Oregon Attorney General's Model Rules for Consultant Selection, OAR Chapter 137, Division 48, and the District's applicable Board Policies.

Compensation:

Compensation will be based on a total "not-to-exceed" amount for services and reimbursable expenses, with "not-to-exceed" maximums for the following individual phases of the design: Pre-Design/ Schematic Design, Design Development, Construction Documents, Bidding, and Construction Administration services, including record documentation. The amount of compensation will be negotiated with the Apparent Successful Proposer.

Proposal Requirements:

The Proposer and all firms, subsidiaries and individuals providing professional services shall be currently licensed to practice in each of their respective areas of professional expertise in the State of Oregon, and shall comply with all State of Oregon Architect and Professional Engineer licensure requirements.

The submittal must include the following, in addition to what is required to comply with the Evaluation Criteria below:

- The firm's name, address, phone number, and facsimile number;
- The name of the contact person within the firm and his/her email address;
- A list of the firm's key personnel who would be assigned to this Project, by discipline;
- The name and Oregon registration number of the Project engineer who will serve as the Engineer of Record;
- The names of additional Project engineer(s) the firm proposes to provide services on this project, along with specific projects each of these persons has worked on in the past three years;
- Illustrations or photographs of at least three (3) relevant projects completed by the firm and involving the above named individuals; and
- The construction cost and building area (in gross square feet) of each reference project;

- Date of completion of each reference project;
- Location of each reference project;
- The function of each reference project;
- The construction delivery method used for each reference project;
- Whether the project was completed on schedule and within the budget or not;
- Responsibilities of those involved on each reference project who would provide services on these projects;
- Name, address and current telephone number of the owner representative most appropriate to discuss your firm's performance on each reference project;
- A Gantt chart providing a proposed schedule for the Pre-Design/Schematic Design, Design Development, and Construction Documents phases for each project.

If awarded the Contract, the Proposer must accept, as Contract performance obligations, the duty to actively pursue the plans as set forth in the Proposer's response.

Evaluation Criteria:

Please indicate in writing the following information about your firm's ability and desire to perform this work. Firms will be rated based upon the weight assigned to each item as noted in parentheses at the end of each statement below.

- 1) Firm Capabilities (15 points)
 - a) Describe your firm's background and experience, including company history, length of time in the industry, service area, staffing size and capabilities.
 - b) Describe your firm's design philosophy.
 - c) Describe your firm's recent (past ten years) experience with design of renovations to public agency facilities (i.e. Fire Stations, Police Stations, Education facilities, etc.), and implementing the agency's design criteria.
- 2) Project Team (15 points)
 - a) Provide your firm's staffing plan and specify key personnel to be assigned to this project. Include an organizational chart, staff roles and a current resume of key personnel.
 - b) Describe what scope of services will be provided by proposing firm and whether sub-consultants are needed to complete this work. Identify the sub-consultants and the key personnel of the sub-consultants that you propose to use on this project.
- 3) Experience with the State of Oregon Seismic Rehabilitation Grant Program (20 points)
 - a) Describe your experience completing seismic rehabilitation projects funded by the Business Oregon SRG Program.
 - b) Provide record of performance on previously completed projects funded by the Business Oregon SRG Program. Indicate whether the project met budget and schedule expectations.
 - c) Provide case studies on three (3) similar projects completed within the last five years. Include information about the size, construction type, building uses, construction delivery method and whether the project was completed on time and within budget.

- 4) Record of Performance & References (20 points)
 - a) Describe your firm's past record of performance on contracts with governmental agencies and private owners with respect to such factors as cost control, quality of work, ability to meet schedules, and contract administration.
 - b) Three (3) letters of reference must be provided, preferably for projects of similar type and size. Provide contact information for each reference.
- 5) Project Approach (20 points)
 - a) Describe your approach to completing seismic rehabilitation projects and what special services, systems, or qualifications the firm has that would benefit the District in this project. Include familiarity with this project specifically and its specific requirements.
 - b) Provide examples of lessons learned and examples of how your firm has worked with Owners and Contractors to minimize surprises during seismic rehabilitation projects.
 - c) Proposed cost management & quality control techniques to be employed.
- 6) Project Location (10 points)
 - a) Describe your availability to and familiarity with the area in which the Project is located, including knowledge of design and construction techniques unique to the area.
 - b) Describe proposer's plan to maximize and document local participation.

Evaluation Process:

The selection committee will score each submittal on the basis of responses to the evaluation categories. Submittals will be rated based upon the weights assigned to each item as noted in the parentheses at the end of the categories.

Each category will be assigned a weight. Each member of the evaluation committee will rank each firm in each category between 0 and 5, and multiply that number by the weight assigned to the category. The individual evaluation committee members will then total the weighted score from all of the criteria to obtain the total score. The result of this total score will be used to rank all respondents.

The RFP also requires reference information for your firm. The District will utilize this information and any other independently obtained references that can provide background on the firm. This information will not be separately scored, but results obtained from these and/or other reference checks will be utilized in evaluating and scoring in the other categories and in the final ranking.

The evaluation committee will meet and use the individual evaluation committee member rankings as a beginning of their discussion. The discussion of the responses will include firm strengths and weaknesses and the individual evaluation committee member scorings. The committee reserves the option to interview finalists as ranked from the results of the evaluation committee discussion and scoring.

Selection Procedure and Timetable:

The selection procedure described below will be used to evaluate the capabilities of interested firms to provide the professional services to the District for this Project.

Wednesday, April 26, 2023	Issue RFP
Wednesday, May 3, 2023 at 2 p.m.	Optional Site Visit
Wednesday, May 10, 2023 at 2 p.m.	Questions and protests due
Friday, May 12, 2023 at 4 p.m.	Owner's written response to questions
Friday, May 19, 2023 at 4 p.m.	RFP response due
Tuesday, May 23, 2023	Optional interviews with Selection Committee
Monday, June 5, 2023	Notice of Intent to Award
Monday, June 12, 2023 at 4 p.m.	Selection Protest Deadline
Monday, June 12, 2023 at 6:30 p.m.	Board Action to Approve Contract
Tuesday, June 13, 2023	District Finalized Contract with Successful Proposer

Submission:

Submit one original and three (3) copies of your written proposal, along with an electronic version on a USB flash drive, to be received by the closing date and time listed in this document to:

Kevin Strong Sweet Home School District 1920 Long Street Sweet Home, OR 97386 Phone: 541-367-7122

Your response must be contained in a document not to exceed fifteen (15) single-sided pages including pictures, charts, graphs, tables and text the firm deems appropriate to be part of the review of the firm's response. Resumes of key individuals proposed to be involved in this project are exempted from the 15-page limit and should be appended to the end of your response. No supplemental information to the 15-page Proposal will be allowed. Appended resumes of the proposed key individuals and client reference letters, along with a transmittal letter, table of contents, front and back covers, and blank section/numerical dividers, etc., will not be counted in the 15-page limit.

Information shall be presented in the same order as the above evaluation criteria. The response should be submitted in soft-bound (comb or spiral, spiral preferred – no three-ring binders) format. The basic text information of the response should be presented in standard business font size (minimum 10-point), and reasonable (prefer 1 (one) inch) margins. Your response must be signed by an officer of your firm with the authority to commit the firm.

The District may reject any submittal not in compliance with all prescribed public bidding procedures and requirements, and may cancel this solicitation or reject for good cause, all responses upon finding by The District that it is in the public interest to do so.

Please note that throughout this Project, the District will not accept responses or queries that require the District to pay the cost of production or delivery.

Telephone, facsimile, or electronically transmitted submittals will not be accepted. Responses received after the closing date and time will not be considered.

Questions:

All questions and contacts with the District regarding any information in this RFP must be addressed in written form to the Contract Administrator at the address, email or fax listed in this document.

Solicitation Protests:

Respondents may submit a written request for clarification or change or protest of particular solicitation provisions and specifications and contract terms and conditions (including comments on any specifications that a firm believes limits competition) to the Contract Administrator at the address, email or fax listed in this document. Such requests and protests must be received no later than 2 p.m. on May 10, 2023. Such requests or protests must state the reasons for the request or protest and any proposed changes to the solicitation provisions and specifications and contract terms and conditions. Failure to file a protest by this time will be deemed a waiver of any claim by a respondent. The District will issue a written disposition of each such protest no less than three (3) business days before proposals are due. If the District upholds the protest, in whole or in part, the District may, in its sole discretion, issue an addendum reflecting its disposition or take other appropriate action.

Change or Modification:

Any change or modification to the specifications or the procurement process will be in the form of an addendum to the RFP and will be made available to all firms via email from the Contract Administrator. No information received in any manner different than as described herein will serve to change the RFP in any way, regardless of the source of the information. Any request for clarification or change or protest of anything contained in an addendum must be received by the date and time stated in the addendum, or they will not be considered.

Selection Protests:

Any respondent to this RFP who claims to have been adversely affected or aggrieved by the selection of a competing respondent may submit a written protest of the selection to the Contract Administrator at the following address within seven days after notification of that selection:

Kevin Strong Business Manager Sweet Home School District 1920 Long Street Sweet Home, OR 97386 Phone: 541-367-7122 Email: <u>kevin.strong@sweethome.k12.or.us</u> Any such protests received by the Contract Administrator after the seven days will not be considered. The protest must state clearly the basis (or bases) for the protest and any legal authority in support thereof. At the request of the protester, a hearing will be conducted before District staff. At such hearing, the protester and other interested parties will have the opportunity to appear and make an oral presentation of the basis for protest. The Director of Business Services will either uphold or deny the protest. If the protest is denied, the District will proceed to award the Contract as planned. The selection decision notification will be made by the Contract Administrator via email.

Proprietary Information:

The District will retain this RFP and one copy of each original response received, together with copies of all documents pertaining to the award of a contract. These documents will be made part of a file or record, which will be open to public inspection after responder selection and award is announced. If a response contains any information that is considered a trade secret under ORS 192.501(2), mark each sheet with the following legend: "This data constitutes a trade secret under ORS 192.501(2), and must not be disclosed except in accordance with the Oregon Public Records Law, ORS Chapter 192."

The Oregon Public Records Law exempts from disclosure only bone fide trade secrets, and the exception from disclosure applies only "unless the public interest requires disclosure in the particular instance". Therefore, non-disclosure of documents or any portion of a document submitted as part of a response may depend upon official or judicial determination made pursuant to the Public Records Law.

In order to facilitate public inspection of the non-confidential portion of the response, material designated as confidential must accompany the response, but must be readily separable from it. Prices, makes, model or catalog numbers of items offered, scheduled delivery dates, and terms of payment will be publicly available regardless of any designation to the contrary. Any response marked as a trade secret in its entirety will be considered non-responsive and will be rejected.

Project Contract:

The District is seeking to award a contract to an engineering firm for programming, schematic design, design development, construction documents, bidding, and construction phases. The successful proposer is required to provide and execute a contract satisfactory to the District.

Certification of Compliance with Tax Laws:

By submission of your proposal, the signatory (a duly authorized representative of the submitting firm) must certify that the firm is not, to the best of their knowledge, in violation of any Oregon tax law. For purpose of this certification, "Oregon Tax Laws" means a state tax imposed by ORS 320.005 to 320.150 and 403.200 to 403.250, ORS Chapters 118, 314, 316, 317, 318, 321 and 323; the elderly rental assistance program under ORS 310.630 to 310.706; and local taxes administered by the Oregon Department of Revenue under ORS 305.620.

Insurance Provisions:

During the term of the resulting contract, the successful proposer will be required to maintain in full force, at its own expense, from insurance companies authorized to transact business of insurance in the state of Oregon, each insurance coverage/policy as set forth in the contract.

ESB/MBE/WBE:

The District is committed to increasing opportunities for Emerging Small Businesses and Minority and Women Owned Businesses, and the District strongly encourages its consultants to utilize these businesses in providing services and materials for the District contracts and projects.

Additional Requirements:

Pursuant to OAR 580-061, by submitting a proposal, the proposer certifies that the proposer has not discriminated against Minority, Women or Emerging Small Business Enterprises in obtaining any required subcontracts.

Pursuant to OAR 580-061-0040, Proposers are hereby notified that policies applicable to consultants and contractors have been adopted that prohibit sexual harassment and that proposers and their employees are required to adhere to the District's policy prohibiting sexual harassment in their interactions.

Exhibits:

Exhibit A - Structural Seismic Evaluation Report (including Preliminary Rehabilitation Drawings) prepared by ZCS Engineering & Architecture – Oak Heights Elementary School, Sweet Home School District

End of RFP



Seismic Evaluation Report For:

OAK HEIGHTS ELEMENTARY SCHOOL

605 Elm St, Sweet Home, OR 97386 Sweet Home School District

Prepared By: ZCS Engineering & Architecture Matthew R. Smith, PE, SE, Principal 524 Main Street, Suite 2, Oregon City, OR 97045 T: 503.659.2205 | E: MattS@zcsea.com





Project S	Project Summary Information					
Building Part	Building Part Name	Included in Retrofit	Year Built	Building Type***	Nonstructural Retrofits Included in Scope Y/N***	Previous Seismic Retrofit Y/N*** (Year if Yes)
А	Main Building	Y	1955	W2	Υ	Ν
В	Gymnasium	Y	1955	W2	Υ	Ν
С	Kindergarten	Ν				
D	Locker Room	Y	1976	RM1	Υ	Ν
	agility inputs for ex evious seismic retr	0	•		smic retrofits MUS ilding part.	T be adjusted to
Total Retr	ofit Cost	\$3,820,150				
Retrofit So	quare Feet	32,500				
	Retrofit Cost per \$117.54					
liquefactic (e.g. the C code defir	ned Tsunami Desig n submittal. Applic	er high hazar Hazards View n Zone requi	d area? er by DC re consu	If so, provid GAMI). ** F Itation with	e documentation Projects within the DOGAMI prior to	Yes per HazVu, ruled out per Geotech report.

Note: The hazard level of tsunami, flood zone, landslide/slope instability, and liquefaction must be explicitly answered either via DOGAMI website, DOGAMI consultation, and/or a geotechnical report. If the hazard level is unknown, it must be assumed to exist and be mitigated or otherwise resolved in the conceptual retrofit scope of work.

Engineer	ing Report Checklist	
\boxtimes	Engineering Report Cover Page	
\boxtimes	Project Summary Page	Page 1
\boxtimes	Building Parts Identification	Page 4
\boxtimes	Statement of the Performance Objective	Page 6
	Summary of Deficiencies	
\boxtimes	Structural Seismic Deficiencies	Page 10
\boxtimes	Nonstructural Seismic Deficiencies	Page 12
	Summary of Mitigation/Retrofit	
\boxtimes	Structural Mitigation/Retrofit	Page 10
\boxtimes	Nonstructural Mitigation/Retrofit	Page 12
	Summary Construction Cost Estimate	
\boxtimes	Direct Cost	Page 15
\boxtimes	Indirect Soft Cost	Page 15
\boxtimes	Certification Statement by Engineer	Page 16
	ASCE 41-17 Tier 1 Checklist	
\boxtimes	Basic Configuration Checklist	Appendix B
\boxtimes	Building System Structural Checklist	Appendix B
\boxtimes	Nonstructural Checklist	Appendix B
\boxtimes	Retrofit Drawings & Sketches	Appendix C
\boxtimes	DOGAMI or Geotechnical Report	Appendix D
\boxtimes	Itemized Construction Cost Estimate	Appendix E
\boxtimes	Rapid Visual Screening	Appendix F

1.0 Project Introduction

Sweet Home School District is located in Sweet Home, Oregon in Linn County. The District operates six schools located within the community including the property of interest, Oak Heights Elementary. The District or Department has retained ZCS Engineering and Architecture (ZCS) to perform a seismic evaluation of Oak Heights Elementary that provides the District or Department with an objective, comprehensive analysis of the condition of the building's seismic resisting systems. The purpose of the evaluation is to determine the seismic lateral resisting system deficiencies when compared to buildings designed using modern building codes. This evaluation was performed in accordance with the American Society of Civil Engineers "Seismic Rehabilitation of Existing Buildings ASCE/SEI 41-17".

SEISMIC EVALUATION SNAPSHOT			
Street Address	605 Elm St, Sweet Home, OR 97386		
Evaluation Standard	ASCE 41-17 (Tier 1 Analysis)		
Building's Risk Category	IV		
Target Building Performance Level	Immediate Occupancy for BSE-1E and Life Safety for BSE-2E		
Target Non-Structural Performance Level	Position Retention for BSE-1E and Hazards Reduced for BSE-2E		
ASCE 41 Building Type	W2, RM1		
FEMA P-154 Seismicity Region (Table 2-2)	Moderately High		
ASCE 41-17 Level of Seismicity (Table 2-4)	High		
Cost Estimate	\$3,820,150		
Cost/Square Foot	\$117.54		

2.0 Building Description

The buildings being considered in this report is the classroom building, gymnasium, and the locker room building. ZCS has reviewed the buildings and their construction to classify their lateral systems as identified in ASCE 41-17. These lateral systems will be used throughout this evaluation. The lateral systems present consist of W2 and RM1. These determinations were made after observing the subject facilities and reviewing the available existing drawings. Descriptions of these structure types are listed below and specifically identify the lateral load resisting systems. In addition to the lateral systems present, ZCS has summarized the gravity load carrying systems of the subject facilities including later in this section.

Wood Frames, Commercial and Industrial W2 – These buildings are commercial or industrial buildings with a floor area of 5,000 ft² or more. There are few, if any, interior walls. The floor and roof framing consists of wood or steel trusses, glulam or steel beams, and wood posts or steel columns. The foundation system may consist of a variety of elements. Seismic forces are resisted by wood diaphragms and exterior stud walls sheathed with plywood, oriented strand board, stucco, plaster, or straight or diagonal wood sheathing, or they may be braced with rod bracing. Wall openings for storefronts and garages, where present, are framed by a post-and-beam framing.

Reinforced Masonry Bearing Walls with Flexible Diaphragms RM1 – These buildings have bearing walls that consist of reinforced brick or concrete block masonry. The floor and roof framing consists of steel or wood beams and girders or open web joists and are supported by steel, wood, or masonry columns. Seismic forces are resisted by the reinforced brick or concrete block masonry shear walls. Diaphragms consist of straight or diagonal wood sheathing, plywood, or unstopped metal deck and are flexible relative to the walls. The foundation system may consist of a variety of elements.

Below is a figure identifying the building parts on campus and listing applicable information. See below for descriptions of building parts included in the evaluation and applicable building types as noted above.





	Construction Year: 1955
۸	Building Name: Classrooms
A	ASCE 41-17 Building Type: W2
	In Scope?: Yes
	Construction Year: 1955
_	Building Name: Gym
В	ASCE 41-17 Building Type: W2
	In Scope?: Yes
	Construction Year: 1979
~	Building Name: Classrooms
С	In Scope?: No
	Construction Year: 1976
	Building Name: Locker Rooms
D	ASCE 41-17 Building Type: RM1
	In Scope?: Yes

Figure 1

Oak Heights Elementary School Key Plan

**Photographs of the building parts included in this report are located in Appendix A.

Building Part A Construction:

- ASCE 41-17 Building Type(s):
 - o W2
- Roof Structure:
 - o Straight sheathed roof diaphragm supported by light timber joists
- Walls:
 - o Dimensional studs with straight sheathing and brick exterior veneer
- Foundation:
 - Slab-on-grade and concrete strip footing foundation
- Notable Structural Features/Concerns:
 - o Window wall on multiple sides of the structure
 - Heavy exterior veneer
 - Buildings are connected with covered exterior canopies consisting of straight sheathed diaphragms, beams, and posts

Building Part B Construction:

- ASCE 41-17 Building Type(s):
 - o W2
- Roof Structure:
 - o Straight sheathed roof diaphragm supported by light timber joists
- Walls:
 - o Dimensional studs with straight sheathing
- Foundation:
 - Slab-on-grade and concrete strip footing foundation
- Notable Structural Features/Concerns:
 - Buildings are connected with covered exterior canopies consisting of straight sheathed diaphragms, beams, and posts

Building Part D Construction:

- ASCE 41-17 Building Type(s):
 - o RM1
- Roof Structure:
 - o Straight sheathed roof diaphragm supported by light timber joists
- Walls:
 - o Reinforced masonry walls
- Foundation:
 - o Slab-on-grade and concrete strip footing foundation

3.0 Seismic Evaluation Methodology

The subject structure was evaluated using information gathered from site observations, available historic construction documents, and interviews with District staff. This information was then utilized to perform a structural evaluation as outlined in the American Society of Civil Engineer's "Seismic Evaluation and Retrofit of Existing Buildings – ASCE 41-17" (ASCE 41-17). ASCE 41-17 is referenced as the standard for seismic evaluations of existing buildings by the International Existing Building Code (IEBC) which is referenced by the Oregon Structural Specialty Code (OSSC). Further, ASCE 41-17 is the evaluation tool required by the Seismic Rehabilitation Grant Program for grant applications.

ASCE 41-17 provides several levels of evaluation (Tiers 1-3) depending on the level of evaluation and/or retrofit being performed. The Tier 1 evaluation is a quick checklist selected based on the type of construction and the performance objective of the building and is the baseline tool for preliminary seismic evaluations. In the case of this evaluation, a Tier 1 was performed to identify the likely structural deficiencies requiring retrofit to meet the performance objective stated below.

The OSSC classifies buildings into risk categories based on the type of building and occupancy type. The building's risk category informs the required performance objective post retrofit. Risk categories I and II cover low risk structures. Risk category III includes school buildings that are not required to be used as emergency shelters and are relatively low occupancy. Risk category IV includes emergency service buildings and school buildings that are required to be designed as emergency shelters (high occupancy spaces). Figure 2, below, identifies the performance objective for each risk category.

The primary objective of adjusting performance objectives relative to risk category is to ensure that the subject building is capable of performing in the necessary manner following a seismic event. In the case of a risk category III building, the intention is to ensure that the building is adequately stable following an earthquake to provide egress for occupants out of the building. Prior to reoccupation, the building would need evaluated and significant structural damage preventing reoccupation may be present. For risk category IV structures, the intent is that the building can be inspected then immediately reoccupied following a seismic event to function in its intended role as an emergency service building or as a high occupancy space capable of acting as an emergency structure.

In accordance with the table below these sections A, B, and D of this building are categorized as a risk category IV structures and were evaluated to meet the Life Safety structural performance and Hazards Reduced nonstructural performance level for BSE-2E loading and the Immediate Occupancy structural performance and Position Retention nonstructural performance level for BSE-1E loading.

Table 2-2. Scope of Assessment Required for Tier 1 and Tier 2 with the Basic Performance Objective for Existing **Buildings (BPOE)**

	Tier 1 and 2 ^a		
Risk Category	BSE-1E	BSE-2E	
I and II	Not evaluated	Collapse Prevention Structural Performance	
	Life Safety Nonstructural Performance (3-C)	Hazards Reduced Nonstructural Performance ^b (5-D	
111	Not evaluated	Limited Safety Structural Performance ^c	
	Position Retention Nonstructural Performance (2-B)	Hazards Reduced Nonstructural Performance ^b (4-D	
IV	Immediate Occupancy Structural Performance	Life Safety Structural Performance ^d	
	Position Retention Nonstructural Performance (1-B)	Hazards Reduced Nonstructural Performance ^b (3-D	

^a For Tier 1 and 2 assessments of Risk Categories I–III, Structural Performance for the BSE-1E is not explicitly

Structural Performance for the BSE-TE is not explicitly evaluated. ^b Compliance with ASCE 7 provisions for new construction is deemed to comply. ^c For Risk Category III, the Tier 1 screening checklists shall be based on the Collapse Prevention Performance Level (S-5), except that checklist statements using the Quick Check procedures of Section 4.4.3 shall be based on *M_s* factors taken as the average of the values for Life Safety and Collapse Prevention. ^d For Risk Category IV, the Tier 1 screening checklists shall be based on the Collapse Prevention Performance Level (S-5), except that checklist statements using the Quick Check procedures of Section 4.4.3 shall be based on *M_s* factors for Life Safety.

Figure 2

Building Performance Objectives

Source: Table 2-2, ASCE 41-17: American Society of Civil Engineers - Seismic Evaluation and Retrofit of Existing Buildings

4.0 Seismicity

Seismic design is based on site specific parameters that relate to the location of the building relative to faults and the soil that supports the building. The United States Geologic Survey has developed seismic design data that is utilized to perform the calculations specified in ASCE 41-17. The table below summarizes the factors appropriate for computing the seismic lateral loads for the design earthquake specified in ASCE 41-17.

SITE SPECIFIC SEISMICITY			
ASCE 7-16 Site Soil Classification	D		
FEMA P-154 Seismicity Region (Table 2-2)	Moderately High		
ASCE 41-17 Level of Seismicity (Table 2-4)	High		
BSE-1E:			
S _{xs}	0.222		
S _{x1}	0.143		
Soil Condition Amplification Factors (F_a , F_v)	$F_a = 1.6 F_v = 2.4$		
BSE-2E:			
S _{xs}	0.639		
S _{x1}	0.498		
Soil Condition Amplification Factors (F_a , F_v)	$F_a = 1.447 F_v = 2.133$		

Source: SEAOC and OSHPD Seismic Design Maps, https://seismicmaps.org/

5.0 Site Specific Hazards

Site specific hazards were assessed as part of our engineering evaluation. The hazards evaluated in our analysis included liquefaction, slope failure, surface fault rupture, and tsunami potential. These potential hazards were evaluated using ASCE 41-17 guidelines, as well as information provided by the online Oregon HazVu: Statewide Geohazards Viewer, maintained by the Department of Geology and Mineral Industries (DOGAMI). Tsunami risk was evaluated using the ASCE Tsunami Hazard Tool. Results from the HazVu analysis are included in Appendix D. Unless noted below, the hazards listed above are not present at the site.

Landslide (Slope Failure)

This project is located within a slope failure/landslide hazard area as identified by the DOGAMI Oregon HazVu. A geotechnical evaluation and report by Galli was conducted on the site. Included in the report is a review of potential site hazards. Per the geotechnical report, attached in Appendix D, landslide is considered a low risk for the site and remediation is not required.

6.0 Deficiencies and Repairs

The table below summarizes both the structural and nonstructural deficiencies noted in the Tier 1 evaluation and states both the proposed retrofit methodology and the plan key note that corresponds to the scope items in the preliminary plans and the cost estimate. See Appendix B for complete Tier 1 check sheets. Drawings illustrating the proposed retrofit measures are attached in Appendix C.

Tier 1 Deficiency Description	Deficiency Statement	Repair Statement	Plan Key Note
LOAD PATH	The structure does not contain a complete, well-defined load path, including structural elements and connections, that serves to transfer the inertial forces associated with the mass of all elements of the building to the foundation.	Provide a complete, well- defined load path by installing new elements and connections as needed to transfer inertial forces from all elements of the building to the foundation.	S1
ADJACENT BUILDINGS	The clear distance between the building being evaluated and any adjacent building is less than 0.5% of the height of the shorter building in low seismicity, 1.0% in moderate seismicity, and 3.0% in high seismicity.	Provide seismic isolation joint to avoid pounding of the taller structure into the lower structure. Provide all new gravity framing and lateral resisting elements as necessary to provide building separation.	S2
REDUNDANCY	The number of lines of shear walls in each principal direction is less than 2.	Install new shear walls or steel frames to ensure a minimum of 2 lines of vertical resisting elements in each principal direction.	S3
SHEAR STRESS CHECK	The shear stress in the shear walls, calculated using the Quick Check procedure of Section 4.4.3.3, is higher than the following values: Structural panel sheathing 1,000 lb/ft Diagonal sheathing 700 lb/ft Straight sheathing 100 lb/ft All other conditions 100 lb/ft	Install new plywood shear walls to ensure adequate shear capacity.	S4
WOOD SILLS	All wood sills are not bolted to the foundation.	Provide new anchor bolts from wood sills to the foundation.	S5
ROOF CHORD CONTINUITY	Chord elements are discontinuous.	Install new shear walls and drag elements at discontinuous chords.	S6
STRAIGHT SHEATHING	Not all straight-sheathed diaphragms have aspect ratios less than 1-to-1 in the direction being considered.	Install new plywood diaphragm sheathing.	S7

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SPANS	Not all wood diaphragms with spans	Install new plywood	
	greater than 12 ft consist of wood	diaphragm sheathing and	
	structural panels or diagonal sheathing.	blocking and install new shear	
		walls to reduce diaphragm	
		spans.	S8
WOOD SILL	Sill bolts are not spaced at 4ft or less	Provide new anchor bolts	
BOLTS	with acceptable edge and end distance	from wood sills to the	
	provided for wood and concrete.	foundation.	S9
REDUNDANCY	The number of lines of shear walls in	Provide additional lateral	
	each principal direction is less than 2.	resisting elements.	S10
WALL	Exterior concrete or masonry walls that	Install new out-of-plane	
ANCHORAGE	are dependent on the diaphragm for	anchorage.	
	lateral support are not anchored for	5	
	out-of-plane forces at each diaphragm		
	level with steel anchors, reinforcing		
	dowels, or straps that are developed		
	into the diaphragm. Connections do not		
	have strength to resist the connection		
	force calculated in the Quick Check		
	procedure of Section 4.4.3.7.		S11
TRANSFER TO	Diaphragms are not connected for	Install new hardware for	
SHEAR WALLS	transfer of seismic forces to the shear	transfer of seismic forces from	
SHEAR WALLS	walls, or the connections are not able to	diaphragm to shear walls.	
	develop the lesser of the shear strength	diaphragin to shear wails.	
	of the walls or diaphragms.		S12
CROSS TIES	There are not continuous cross ties	Provide new continuous cross	512
CROSS TES	between diaphragm chords.	ties between diaphragm	
	between diaphragin chords.	chords.	S13
DIAGONALLY	Not all diagonally sheathed or	Block and renail existing	515
SHEATHED AND	unblocked wood structural panel	plywood diaphragm.	
UNBLOCKED	diaphragms have horizontal spans less		
DIAPHRAGMS	than 30 ft and aspect ratios less than or		
	equal to 3-to-1.		S14
BOWSTRINGS	Bowstring trusses are markedly under-	Retrofit and strengthen	
	designed, exhibiting on-going symptoms	bowstring trusses to support	
	of structural distress and can no longer	code required seismic loading.	
	be relied upon to support code		
	prescribed seismic loading.		S15
HAZARDOUS	Piping or ductwork conveying	Brace piping or ductwork	
MATERIAL	hazardous materials is not braced or	conveying hazardous	
DISTRIBUTION	otherwise protected from damage that	materials.	
	would allow hazardous material release.		N1
SHUTOFF	Piping containing hazardous material,	Install shut off valves for	
VALVES	including natural gas, does not have	piping containing hazardous	
	shut off valves or other devices to limit	material, including natural	
	spills or leaks.	gas.	N2
FLEXIBLE	Hazardous material ductwork and	Install flexible couplings for	1
COUPLINGS	piping, including natural gas piping, do	ductwork and piping	
	not have flexible couplings.	containing hazardous	
		-	N3

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		material, including natural gas piping.	
HEAVY PARTITIONS SUPPORTED BY CEILINGS	The tops of masonry or hollow-clay tile partitions are laterally supported by an integrated ceiling system.	Independently brace the tops of masonry partitions.	N4
INTEGRATED CEILINGS	Integrated suspended ceilings with continuous areas greater than 144 ft2 and ceilings of smaller areas that are not surrounded by restraining partitions are not laterally restrained at a spacing less than 12ft with members attached to the structure above. Each restraint location does not have a minimum of four diagonal wires and compression struts, nor diagonal members capable of resisting compression.	Install seismic bracing for integrated suspended ceilings.	N5
EDGE CLEARANCE	The free edges of integrated suspended ceilings with continuous areas greater than 144ft.2 does not have clearances from the enclosing wall or partition of at least the following: in Moderate Seismicity, 1/2 in.; in High Seismicity, 3/4 in.	Install free edge clearance for integrated suspended ceilings.	N6
EDGE SUPPORT	The free edges of integrated suspended ceilings with continuous areas greater than 144ft.2 are not supported by closure angles or channels not less than 2 in. wide.	Install free edge support for integrated suspended ceilings.	N7
INDEPENDENT SUPPORT	Light fixtures that weigh more per square foot than the ceiling they penetrate are not supported independent of the grid ceiling suspension system by a minimum of two wires at diagonally opposite corners of each fixture.	Provide independent support for light fixtures.	N8

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PENDANT SUPPORTS	Light fixtures on pendant supports are not attached at a spacing equal to or less than 6 ft. Unbraced suspended fixtures are not free to allow a 360- degree range of motion at an angle not less than 45 degrees from horizontal without contacting adjacent components. Alternatively, if rigidly supported and/or braced, they are not free to move with the structure to which they are attached without damaging adjoining components. The connection to the structure is not capable of accommodating the movement without failure.	Provide independent support for light fixtures.	N9
LENS COVERS	Lens covers on light fixtures are not attached with safety devices.	Install safety devices for light fixture lens covers.	N10
TIES	Masonry veneer is not connected to the backup with corrosion-resistant ties. There is not a minimum of one tie for every 2-2/3 ft.2, or the ties have spacing greater than the following: for Life Safety in Low or Moderate Seismicity, 36 in.; for Life Safety in High Seismicity and for Position Retention in any seismicity, 24 in.	Secure existing masonry veneer with new stitch ties.	N11
CANOPIES	Canopies at building exits are not anchored to the structure at a spacing no greater than the following: for Life Safety in Low or Moderate Seismicity, 10 ft; for Life Safety in High Seismicity and for Position Retention in any seismicity, 6 ft.	Seismically anchor existing canopies to the structure.	N11 N12
TALL NARROW CONTENTS	Contents more than 6 ft high with a height-to-depth or height-to-width ratio greater than 3-to-1 are not anchored to the structure or to each other.	Anchor contents to the structure.	N12
FALL-PRONE CONTENTS	Equipment, stored items, or other contents weighing more than 20lb whose center of mass is more than 4 ft above the adjacent floor level are not braced or otherwise restrained.	Brace equipment to structure.	N14
FALL-PRONE EQUIPMENT	Equipment weighing more than 20 lb whose center of mass is more than 4 ft above the adjacent floor level, and which is not in-line equipment, is not braced.	Brace and anchor equipment weighing more than 20 lb, whose center of mass is more than 4 ft above the adjacent floor level.	N15

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IN-LINE EQUIPMENT	Equipment installed in line with a duct or piping system, with an operating weight more than 75 lb, is not supported or laterally braced independent of the duct or piping system.	Independently support and laterally brace equipment with an operating weight more than 75 lb installed in line with a duct or piping system.	N16
TALL NARROW EQUIPMENT	Equipment more than 6ft high with a height-to-depth or height-to-width ratio greater than 3-to-1 is not anchored to the floor slab or adjacent structural walls.	Anchor equipment more than 6ft high with a height-to- depth or height-to-width ratio greater than 3-to-1 to the floor slab or adjacent structural walls.	N17
FLEXIBLE COUPLINGS	Fluid and gas piping does not have flexible couplings.	Install flexible couplings for fluid and gas piping.	N18
FLUID AND GAS PIPING	Fluid and gas piping is not anchored or braced to the structure to limit spills or leaks.	Anchor and brace fluid and gas piping to the structure.	N19

In addition to the structural and nonstructural deficiencies noted above, the gravity load resisting system was reviewed to identify obvious insufficient gravity components. Insufficient gravity elements can cause failure during seismic events. These gravity deficiencies are based on visual observations of the existing structural elements. No formal structural analysis was performed during this evaluation of the gravity resisting element.

Bowstring trusses are markedly under-designed, exhibiting on-going symptoms of structural distress and can no longer be relied upon to support code prescribed gravity loading. The trusses will be retrofitted and strengthened to support code required gravity loading. This is deficiency/repair/plan note S15.

Based upon ZCS's previous experience and discussions with site personnel the buildings contain hazardous materials. These materials will need to be dealt with on a case-by-case basis as they are encountered during the project.

7.0 Preliminary Construction Cost Estimate

The attached engineer's opinion of probable cost has been developed by ZCS. ZCS has a successful record of completing seismic rehabilitation projects within the State of Oregon. The prices provided in the attached cost estimate have been developed using the extensive list of past projects as a baseline for this project. These prices are based on Oregon BOLI wage rates. The cost estimate is broken down into multiple line items associated with each major task (general conditions, foundation, structural steel, MEP, etc) associated with the rehabilitation. Additional line items are included for design associated permit costs, and owner construction management. A complete breakdown of the cost estimate can be found in Appendix E.

DIRECT COST							
Construction	\$2,835,200						
Engineering	\$443,300						
Construction Management	\$93,700						
Relocation	\$40,700						
Construction Contingency	\$407,250						
TOTALS AND SUMMARY							
Total Cost Estimate	\$3,820,150						
Match Funds	\$1,320,150						
Total Amount Requested from SRGP	\$2,500.000						
Total Area	32,500 S.F.						
Cost/Square Foot	\$117.54						

8.0 Conclusion and Certification Statement

The findings described in this report have been limited to the lateral force-resisting structural system and general assessment of the gravity force-resisting elements. Based on our visual observations, we find the structure to be in relatively good condition and generally safe for occupancy. No significant damage to the existing structural system was discovered.

Given the current condition of the structure, the current code section on existing buildings does not mandate that upgrades are required unless the building is scheduled for repairs, alterations, additions, or change in occupancy. To clarify, upgrades outlined in this report are strictly at the discretion of the District.

Please contact our office if you would like to discuss our findings. Please review the attached schematic drawings that can be used to refine a scope and budget.

Certification Statement

ZCS Engineering & Architecture's professional staff has reviewed the subject building and the deficiencies noted in the Tier 1 evaluation, developed seismic retrofit solutions to rectify the deficiencies, and developed the engineering cost estimate. The project cost estimate was developed by ZCS based on unit costs from our extensive list of past seismic retrofit projects as a baseline. We certify to the best of our knowledge, based on known and readily identifiable existing conditions, that all the seismic deficiencies present in the building are included in the retrofit scope of work and that all the retrofit's scope of work elements are included in the cost estimate.

Matthew R. Smith, PE, SE

Sweet Home School District Oak Heights Elementary Seismic Evaluation December 2022 Project No: P-2604-20

Appendix A: Figures

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Oak Heights Elementary Seismic Evaluation



Figure 1: SOUTH ELEVATION AT CLASSROOM BUILDING



Figure 2: SOUTH ELEVATION AT COURTYARD





Figure 3: INTERIOR WINDOW WALL OF CLASSROOMS



Figure 4: EXTERIOR NORTH ELEVATION



Figure 5: NORTHEAST ELEVATION



Figure 6: GYM BOWSTRING TRUSSES



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Appendix B: Tier 1 Check Sheets

AREA A: CLASSROOMS AREA B: GYM AREA D: LOCKER ROOMS

Project Name
Project Number

17.1.2IO Basic Configuration Checklist

Table 17-3. Immediate Occupancy Basic Configuration Checklist

					Tier 2	Commentary					
Status				Evaluation Statement	Reference	Reference	Comments				
Very Low Seismicity											
Building System—General											
C	NC	N/A	U	LOAD PATH: The structure contains a complete, well-defined	5.4.1.1	A.2.1.1					
				load path, including structural							
				elements and connections, that							
				serves to transfer the inertial forces							
				associated with the mass of all							
				elements of the building to the							
				foundation.							
с	NC	N/A	U	ADJACENT BUILDINGS: The clear	5.4.1.2	A.2.1.2					
				distance between the building							
				being evaluated and any adjacent							
				building is greater than 0.5% of							
				the height of the shorter building							
				in low seismicity, 1.0% in moderate							
				seismicity, and 3.0% in high							
	NC	N/A	U	seismicity. MEZZANINES: Interior mezzanine	5.4.1.3	A.2.1.3					
C	NC	N/A	U	levels are braced independently	5.4.1.5	A.2.1.5					
				from the main structure or are							
				anchored to the seismic-force-							
				resisting elements of the main							
				structure.							
Ruildin	na Sveta	mRuild	lina Co	nfiguration							
					5421	4222					
C	NC	N/A	U	WEAK STORY: The sum of the shear strengths of the seismic-force-	5.4.2.1	A.2.2.2					
				resisting system in any story in							
				each direction is not less than 80%							
				of the strength in the adjacent							
				story above.							
c	NC	N/A	U	SOFT STORY: The stiffness of the	5.4.2.2	A.2.2.3					
			_	seismic-force-resisting system in							
				any story is not less than 70% of							
				the seismic-force-resisting system							
				stiffness in an adjacent story above							
				or less than 80% of the average							
				seismic-force-resisting system							
				stiffness of the three stories above.							
С	NC	N/A	U	VERTICAL IRREGULARITIES: All	5.4.2.3	A.2.2.4					
				vertical elements in the seismic-							
				force-resisting system are							
				continuous to the foundation.							

Legend: C = Compliant, NC = Noncompliant, N/A = Not Applicable, U = Unknown

AREA A: CLASSROOMS AREA B: GYM AREA D: LOCKER ROOMS

Project Name

-	
Project Number	

С	NC	N/A	U	GEOMETRY: There are no changes	5.4.2.4	A.2.2.5					
				in the net horizontal dimension of							
				the seismic-force-resisting system							
				of more than 30% in a story							
				relative to adjacent stories,							
				excluding one-story penthouses							
				and mezzanines.							
С	NC	N/A	U	MASS: There is no change in	5.4.2.5	A.2.2.6					
				effective mass of more than 50%							
				from one story to the next. Light							
				roofs, penthouses, and							
				mezzanines need not be							
				considered.							
С	NC	N/A	U	TORSION: The estimated distance	5.4.2.6	A.2.2.7					
								between the story center of mass			
				and the story center of rigidity is							
				less than 20% of the building							
				width in either plan dimension.							

Status	;			Evaluation Statement	Tier 2 Reference	Commentary Reference	Comments		
Low S	Low Seismicity (Complete the Following Items in Addition to the Items for Very Low Seismicity)								
Geologic Site Hazards									
С	NC	N/A	U	LIQUEFACTION: Liquefaction-	5.4.3.1	A.6.1.1			
				susceptible, saturated, loose granular soils that could					
				jeopardize the building's seismic					
				performance do not exist in the					
				foundation soils at depths within					
				50 ft (15.2 m) under the building.					
С	NC	N/A	U	SLOPE FAILURE: The building site	5.4.3.1	A.6.1.2			
				is located away from potential earthquake-induced slope failures					
				or rockfalls so that it is unaffected					
				by such failures or is capable of					
				accommodating any predicted					
				movements without failure.					
С	NC	N/A	U	SURFACE FAULT RUPTURE: Surface	5.4.3.1	A.6.1.3			
				fault rupture and surface					
				displacement at the building site					
				are not anticipated.					

Legend: C = Compliant, NC = Noncompliant, N/A = Not Applicable, U = Unknown

Status Evaluation Statement				Evaluation Statement	Tier 2 Reference	Commentary Reference	Comments		
Moderate and High Seismicity (Complete the Following Items in Addition to the Items for Low Seismicity) Foundation Configuration									
c		N/A	U	OVERTURNING: The ratio of the least horizontal dimension of the seismic-force-resisting system at the foundation level to the building height (base/height) is greater than 0.6 <i>S</i> _a .	5.4.3.3	A.6.2.1			
c		N/A	U	TIES BETWEEN FOUNDATION ELEMENTS: The foundation has ties adequate to resist seismic forces where footings, piles, and piers are not restrained by beams, slabs, or soils classified as Site Class A, B, or C.	5.4.3.4	A.6.2.2			

Project Name
Project Number

17.3IO Structural Checklist for Building Type W2: Wood Frames, Commercial and Industrial

AREA A: CLASSROOMS AREA B: GYMNASIUM

					Tier 2	Commentary					
State	us			Evaluation Statement	Reference	Reference	Comments				
Very Low Seismicity											
Seismic-Force-Resisting System											
С	NC	N/A	U	REDUNDANCY: The number of lines of	5.5.1.1	A.3.2.1.1					
				shear walls in each principal direction is							
				greater than or equal to 2.							
С	NC	N/A	U	SHEAR STRESS CHECK: The shear stress	5.5.3.1.1	A.3.2.7.1					
				in the shear walls, calculated using the							
				Quick Check procedure of Section							
				4.4.3.3, is less than the following values:							
				Structural panel sheathing 1,000 lb/ft							
				(14.6 kN/m)							
				Diagonal sheathing 700 lb/ft (10.2							
				kN/m)							
				Straight sheathing 100 lb/ft (1.5 kN/m)							
				All other conditions 100 lb/ft (1.5 kN/m)							
С	NC	N/A	U	STUCCO (EXTERIOR PLASTER) SHEAR	5.5.3.6.1	A.3.2.7.2					
				WALLS: Multi-story buildings do not rely							
				on exterior stucco walls as the primary							
	NC	NI / A		seismic-force-resisting system. GYPSUM WALLBOARD OR PLASTER	55261	A 2 2 7 2					
С	NC	N/A	U		5.5.3.6.1	A.3.2.7.3					
				SHEAR WALLS: Interior plaster or gypsum wallboard is not used for shear							
				walls on buildings more than one story							
				high with the exception of the							
				uppermost level of a multi-story							
				building.							
С	NC	N/A	U	NARROW WOOD SHEAR WALLS: Narrow	5.5.3.6.1	A.3.2.7.4					
				wood shear walls with an aspect ratio							
				greater than 2-to-1 are not used to resist							
				seismic forces.							
С	NC	N/A	U	WALLS CONNECTED THROUGH FLOORS:	5.5.3.6.2	A.3.2.7.5					
				Shear walls have an interconnection							
				between stories to transfer overturning							
				and shear forces through the floor.							
С	NC	N/A	U	HILLSIDE SITE: For structures that are	5.5.3.6.3	A.3.2.7.6					
				taller on at least one side by more than							
				one-half story because of a sloping site,							
				all shear walls on the downhill slope							
				have an aspect ratio less than 1-to-2.							
С	NC	N/A	U	CRIPPLE WALLS: Cripple walls below	5.5.3.6.4	A.3.2.7.7					
	\square				first-floor-level shear walls are braced to						
				the foundation with wood structural							
				panels.							

Table 17-7. Immediate Occupancy Checklist for Building Type W2

Legend: C = Compliant, NC = Noncompliant, N/A = Not Applicable, U = Unknown
AREA A: CLASSROOMS AREA B: GYMNASIUM

Project Name	
Project Number	
Project Number	

c	NC	N/A	U	OPENINGS: Walls with openings greater than 80% of the length are braced with	5.5.3.6.5	A.3.2.7.8
				wood structural panel shear walls with		
				aspect ratios of not more than 1.5-to-1		
				or are supported by adjacent		
				construction through positive ties		
				capable of transferring the seismic		
				forces.		
C	NC	N/A	U	HOLD-DOWN ANCHORS: All shear walls	5.5.3.6.6	A.3.2.7.9
				have hold-down anchors attached to		
				the end studs constructed in		
				accordance with acceptable		
		_		construction practices.		
	ection NC	-		WOOD POSTS, Thora is a positive	E 7 2 2	A 5 2 2
C	NC	N/A	U	WOOD POSTS: There is a positive connection of wood posts to the	5.7.3.3	A.5.3.3
				foundation.		
С	NC	N/A	U	WOOD SILLS: All wood sills are bolted to	5.7.3.3	A.5.3.4
				the foundation.		
С	NC	N/A	U	GIRDER-COLUMN CONNECTION: There	5.7.4.1	A.5.4.1
				is a positive connection using plates,		
				connection hardware, or straps		
				between the girder and the column		
				support.		
		Systen				
C	NC	N/A	U	DEEP FOUNDATIONS: Piles and piers are		A.6.2.3
				capable of transferring the lateral forces between the structure and the soil.		
<u> </u>	NC	N/A	U	SLOPING SITES: The difference in		A.6.2.4
~				foundation embedment depth from		,
				one side of the building to another does		
				not exceed one story high.		
				, ,		
					Tier 2	Commentary
Statu	IS			Evaluation Statement	Reference	Reference Comments
-				h Seismicity (Complete the Following Ite	ms in Additio	n to the Items for Very Low Seismicity)
		ce-Resi	-			
C	NC	N/A	U	NARROW WOOD SHEAR WALLS: Narrow	5.5.3.6.1	A.3.2.7.4
				wood shear walls with an aspect ratio		
				greater than 1.5-to-1 are not used to		
Diam				resist seismic forces.		
C	hragm: NC	s N/A	U	DIAPHRAGM CONTINUITY: The	5.6.1.1	A.4.1.1
-				diaphragms are not composed of split-	5.0.1.1	
				level floors and do not have expansion		
				joints.		

AREA A: CLASSROOMS AREA B: GYMNASIUM

Project Name

Project Name
Project Number

С	NC	N/A	U	ROOF CHORD CONTINUITY: All chord	5.6.1.1	A.4.1.3
			\square	elements are continuous, regardless of		
				changes in roof elevation.		
С	NC	N/A	U	DIAPHRAGM REINFORCEMENT AT	5.6.1.5	A.4.1.8
				OPENINGS: There is reinforcing around		
				all diaphragm openings larger than 50%		
				of the building width in either major		
				plan dimension.		
С	NC	N/A	U	STRAIGHT SHEATHING: All straight-	5.6.2	A.4.2.1
				sheathed diaphragms have aspect		
				ratios less than 1-to-1 in the direction		
				being considered.		
С	NC	N/A	U	SPANS: All wood diaphragms with	5.6.2	A.4.2.2
				spans greater than 12 ft (3.6 m) consist		
				of wood structural panels or diagonal		
				sheathing.		
С	NC	N/A	U	DIAGONALLY SHEATHED AND	5.6.2	A.4.2.3
				UNBLOCKED DIAPHRAGMS: All		
				diagonally sheathed or unblocked		
				wood structural panel diaphragms have		
				horizontal spans less than 30 ft (9.2 m)		
				and have aspect ratios less than or		
				equal to 3-to-1.		
С	NC	N/A	U	OTHER DIAPHRAGMS: The diaphragms	5.6.5	A.4.7.1
				do not consist of a system other than		
				wood, metal deck, concrete, or		
				horizontal bracing.		
Conn	ection	s				
С	NC	N/A	U	WOOD SILL BOLTS: Sill bolts are spaced	5.7.3.3	A.5.3.7
				at 4 ft or less with acceptable edge and		
				end distance provided for wood and		
				concrete.		

Project Name
Project Number

AREA D: LOCKER ROOMS

17.17IO Structural Checklist for Building Types RM1: Reinforced Masonry Bearing Walls with Flexible Diaphragms and RM2: Reinforced Masonry Bearing Walls with Stiff Diaphragms

					Tier 2	Commentary	
Status				Evaluation Statement	Reference	Reference	Comments
Very L	ow S	eismici	ty				
Seismic-Force-Resisting				System			
СІ	NC	N/A	U	REDUNDANCY: The number of lines of	5.5.1.1	A.3.2.1.1	
				shear walls in each principal direction is			
				greater than or equal to 2.			
C I	NC	N/A	U	SHEAR STRESS CHECK: The shear stress in	5.5.3.1.1	A.3.2.4.1	
				the reinforced masonry shear walls,			
				calculated using the Quick Check			
				procedure of Section 4.4.3.3, is less than			
				70 lb/in. ² (4.83 MPa).			
C I	NC	N/A	U	REINFORCING STEEL: The total vertical	5.5.3.1.3	A.3.2.4.2	
				and horizontal reinforcing steel ratio in			
				reinforced masonry walls is greater than			
				0.002 of the wall with the minimum of			
				0.0007 in either of the two directions; the			
				spacing of reinforcing steel is less than 48			
				in., and all vertical bars extend to the top			
				of the walls.			
Conne	ction	S					
CI	NC	N/A	U	WALL ANCHORAGE: Exterior concrete or	5.7.1.1	A.5.1.1	
				masonry walls that are dependent on the			
				diaphragm for lateral support are			
				anchored for out-of-plane forces at each			
				diaphragm level with steel anchors,			
				reinforcing dowels, or straps that are			
				developed into the diaphragm.			
				Connections have strength to resist the			
				connection force calculated in the Quick			
				Check procedure of Section 4.4.3.7.			
C I	NC	N/A	U	WOOD LEDGERS: The connection	5.7.1.3	A.5.1.2	
	\square		\square	between the wall panels and the			
				diaphragm does not induce cross-grain			
				bending or tension in the wood ledgers.			
C I	NC	N/A	U	TRANSFER TO SHEAR WALLS: Diaphragms	5.7.2	A.5.2.1	
			\Box	are connected for transfer of seismic			
<u> </u>		<u> </u>		forces to the shear walls, and the			
				connections are able to develop the lesser			
				of the shear strength of the walls or			
				diaphragms.			

Table 17-35. Immediate Occupancy Structural Checklist for Building Types RM1 and RM2

Project Name

Project Number

AREA D: LOCKER ROOMS

С	NC	N/A	U	FOUNDATION DOWELS: Wall	5.7.3.4	A.5.3.5
				reinforcement is doweled into the		
				foundation, and the dowels are able to		
				develop the lesser of the strength of the		
				walls or the uplift capacity of the		
				foundation.		
С	NC	N/A	U	GIRDER-COLUMN CONNECTION: There	5.7.4.1	A.5.4.1
				is a positive connection using plates,		
				connection hardware, or straps		
				between the girder and the column		
				support.		
Stiff	Diaphr	aams				
C	NC	N/A	U	TOPPING SLAB: Precast concrete	5.6.4	A.4.5.1
_				diaphragm elements are		
				interconnected by a continuous		
				reinforced concrete topping slab.		
С	NC	N/A	U	TOPPING SLAB TO WALLS OR FRAMES:	5.7.2	A.5.2.3
_				Reinforced concrete topping slabs that		
				interconnect the precast concrete		
				diaphragm elements are doweled for		
				transfer of forces into the shear wall or		
				frame elements.		
Foun	dation	Systen	n			
С	NC	N/A	U	DEEP FOUNDATIONS: Piles and piers are		A.6.2.3
				capable of transferring the lateral forces		
				between the structure and the soil.		
С	NC	N/A	U	SLOPING SITES: The difference in		A.6.2.4
				foundation embedment depth from		
				one side of the building to another does		
				not exceed one story.		
					Tier 2	Commentary
Statu	JS			Evaluation Statement	Reference	Reference Comments
Low,	Mode	rate, ar	nd Hig	h Seismicity (Complete the Following Ite	ms in Additio	n to the Items for Very Low Seismicity)
Seisr	nic-For	ce-Resi	isting S	System		
Seisr C	nic-For NC	ce-Resi N/A	isting S U	System REINFORCING AT WALL OPENINGS: All	5.5.3.1.5	A.3.2.4.3
					5.5.3.1.5	A.3.2.4.3
-				REINFORCING AT WALL OPENINGS: All	5.5.3.1.5	A.3.2.4.3
-				REINFORCING AT WALL OPENINGS: All wall openings that interrupt rebar have	5.5.3.1.5	A.3.2.4.3 A.3.2.4.4
C	NC	N/A	U	REINFORCING AT WALL OPENINGS: All wall openings that interrupt rebar have trim reinforcing on all sides.		
с	NC	N/A	U	REINFORCING AT WALL OPENINGS: All wall openings that interrupt rebar have trim reinforcing on all sides. PROPORTIONS: The height-to-thickness		
C	NC NC NC	N/A	U U U U	REINFORCING AT WALL OPENINGS: All wall openings that interrupt rebar have trim reinforcing on all sides. PROPORTIONS: The height-to-thickness ratio of the shear walls at each story is less than 30.		
C	NC NC NC	N/A	U U U U	REINFORCING AT WALL OPENINGS: All wall openings that interrupt rebar have trim reinforcing on all sides. PROPORTIONS: The height-to-thickness ratio of the shear walls at each story is less than 30.		
C C Diap	NC NC hragm	N/A N/A N/A s (Stiff	U U Or Flex	REINFORCING AT WALL OPENINGS: All wall openings that interrupt rebar have trim reinforcing on all sides. PROPORTIONS: The height-to-thickness ratio of the shear walls at each story is less than 30. (ible)	5.5.3.1.2	A.3.2.4.4
C C Diap	NC NC hragm	N/A N/A N/A s (Stiff	U U Or Flex	REINFORCING AT WALL OPENINGS: All wall openings that interrupt rebar have trim reinforcing on all sides. PROPORTIONS: The height-to-thickness ratio of the shear walls at each story is less than 30. (ible) OPENINGS AT SHEAR WALLS:	5.5.3.1.2	A.3.2.4.4

Project Name ______ Project Number _____

ARFA D' LOCKER ROOMS

						AREA D. LOOKER ROOMS
С	NC	N/A	U	OPENINGS AT EXTERIOR MASONRY SHEAR	5.6.1.3	A.4.1.6
				WALLS: Diaphragm openings immediately		
				adjacent to exterior masonry shear walls		
				are not greater than 4 ft (1.2 m) long.		
С	NC	N/A	U	PLAN IRREGULARITIES: There is tensile	5.6.1.4	A.4.1.7
				capacity to develop the strength of the		
				diaphragm at reentrant corners or other		
				locations of plan irregularities.		
С	NC	N/A	U	DIAPHRAGM REINFORCEMENT AT	5.6.1.5	A.4.1.8
				OPENINGS: There is reinforcing around all		
				diaphragm openings larger than 50% of		
				the building width in either major plan		
				dimension.		
Flexi	ble Dia	phrag	ns			
C	NC	N/A	U	CROSS TIES: There are continuous cross	5.6.1.2	A.4.1.2
-				ties between diaphragm chords.	5101112	
С	NC	N/A	U	STRAIGHT SHEATHING: All straight-	5.6.2	A.4.2.1
				sheathed diaphragms have aspect ratios		
				less than 1-to-1 in the direction being		
				considered.		
С	NC	N/A	U	SPANS: All wood diaphragms with spans	5.6.2	A.4.2.2
				greater than 12 ft (3.6 m) consist of wood		
				structural panels or diagonal sheathing.		
С	NC	N/A	U	DIAGONALLY SHEATHED AND	5.6.2	A.4.2.3
				UNBLOCKED DIAPHRAGMS: All diagonally		
				sheathed or unblocked wood structural		
				panel diaphragms have horizontal spans		
				less than 30 ft (9.2 m) and aspect ratios		
				less than or equal to 3-to-1.		
С	NC	N/A	U	NONCONCRETE FILLED DIAPHRAGMS:	5.6.3	A.4.3.1
				Untopped metal deck diaphragms or		
				metal deck diaphragms with fill other than		
				concrete consist of horizontal spans of less		
				than 40 ft (12.2 m) and have aspect ratios		
				less than 4-to-1.		
С	NC	N/A	U	OTHER DIAPHRAGMS: Diaphragms do not	5.6.5	A.4.7.1
				consist of a system other than wood,		
				metal deck, concrete, or horizontal		
				bracing.		
Conn	ection	S				
С	NC	N/A	U	STIFFNESS OF WALL ANCHORS: Anchors of	5.7.1.2	A.5.1.4
				concrete or masonry walls to wood		
				structural elements are installed taut and		
				are stiff enough to limit the relative		
				movement between the wall and the		
				diaphragm to no greater than 1/8 in.		
				before engagement of the anchors.		

Project Name ______ Project Number ______

17.19 Nonstructural Checklist

Table 17-38. Nonstructural Checklist

AREA A, B, and D

					Tier 2	Commentary	
Statu	IS			Evaluation Statement ^{a,b}	Reference	Reference	Comments
Life S	Safety S	Systems	5				
С	NC	N/A	U	HR—not required; LS—LMH; PR—LMH. FIRE	13.7.4	A.7.13.1	
				SUPPRESSION PIPING: Fire suppression piping is			
				anchored and braced in accordance with NFPA-13.			
С	NC	N/A	U	HR—not required; LS—LMH; PR—LMH. FLEXIBLE	13.7.4	A.7.13.2	
				COUPLINGS: Fire suppression piping has flexible			
				couplings in accordance with NFPA-13.			
С	NC	N/A	U	HR—not required; LS—LMH; PR—LMH.	13.7.7	A.7.12.1	
				EMERGENCY POWER: Equipment used to power or			
				control Life Safety systems is anchored or braced.			
С	NC	N/A	U	HR—not required; LS—LMH; PR—LMH. STAIR AND	13.7.6	A.7.14.1	
				SMOKE DUCTS: Stair pressurization and smoke			
				control ducts are braced and have flexible			
				connections at seismic joints.			
С	NC	N/A	U	HR—not required; LS—MH; PR—MH. SPRINKLER	13.7.4	A.7.13.3	
				CEILING CLEARANCE: Penetrations through panelized			
				ceilings for fire suppression devices provide			
				clearances in accordance with NFPA-13.			
С	NC	N/A	U	HR—not required; LS—not required; PR—LMH.	13.7.9	A.7.3.1	
			\square	EMERGENCY LIGHTING: Emergency and egress			
				lighting equipment is anchored or braced.			
Haza	rdous	Materia	als				
С	NC	N/A	U	HR—LMH; LS—LMH; PR—LMH. HAZARDOUS	13.7.1	A.7.12.2	
				MATERIAL EQUIPMENT: Equipment mounted on			
				vibration isolators and containing hazardous material			
				is equipped with restraints or snubbers.			
С	NC	N/A	U	HR—LMH; LS—LMH; PR—LMH. HAZARDOUS	13.8.3	A.7.15.1	
				MATERIAL STORAGE: Breakable containers that hold			
				hazardous material, including gas cylinders, are			
				restrained by latched doors, shelf lips, wires, or other			
				methods.			
С	NC	N/A	U	HR—MH; LS—MH; PR—MH. HAZARDOUS MATERIAL	13.7.3	A.7.13.4	
				DISTRIBUTION: Piping or ductwork conveying	13.7.5		
				hazardous materials is braced or otherwise protected			
				from damage that would allow hazardous material			
				release.			
С	NC	N/A	U	HR—MH; LS—MH; PR—MH. SHUTOFF VALVES:	13.7.3	A.7.13.3	
				Piping containing hazardous material, including	13.7.5		
				natural gas, has shutoff valves or other devices to			
				limit spills or leaks.			
С	NC	N/A	U	HR—LMH; LS—LMH; PR—LMH. FLEXIBLE	13.7.3	A.7.15.4	
				COUPLINGS: Hazardous material ductwork and	13.7.5		
				piping, including natural gas piping, have flexible			
				couplings.			

				Project Name				
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					AREA	A, B, and D		
С	NC	N/A	U	HR—MH; LS—MH; PR—MH. PIPING OR DUCTS	13.7.3	A.7.13.6		
				CROSSING SEISMIC JOINTS: Piping or ductwork	13.7.5			
				carrying hazardous material that either crosses	13.7.6			
				seismic joints or isolation planes or is connected to				
				independent structures has couplings or other details				
				to accommodate the relative seismic displacements.				
Parti	tions							
С	NC	N/A	U	HR—LMH; LS—LMH; PR—LMH. UNREINFORCED	13.6.2	A.7.1.1		
				MASONRY: Unreinforced masonry or hollow-clay tile				
				partitions are braced at a spacing of at most 10 ft (3.0				
				m) in Low or Moderate Seismicity, or at most 6 ft (1.8				
				m) in High Seismicity.				
С	NC	N/A	U	HR—LMH; LS—LMH; PR—LMH. HEAVY PARTITIONS	13.6.2	A.7.2.1		
				SUPPORTED BY CEILINGS: The tops of masonry or				
				hollow-clay tile partitions are not laterally supported				
				by an integrated ceiling system.	42.42			
C	NC	N/A	U	HR—not required; LS—MH; PR—MH. DRIFT: Rigid	13.6.2	A.7.1.2		
				cementitious partitions are detailed to accommodate				
				the following drift ratios: in steel moment frame,				
				concrete moment frame, and wood frame buildings,				
	NC	NI / A		0.02; in other buildings, 0.005.	13.6.2	A.7.2.1		
С	NC	N/A	U	HR—not required; LS—not required; PR—MH . LIGHT PARTITIONS SUPPORTED BY CEILINGS: The tops	15.0.2	A.7.2.1		
				of gypsum board partitions are not laterally				
				supported by an integrated ceiling system.				
c	NC	N/A	U	HR—not required; LS—not required; PR—MH.	13.6.2	A.7.1.3		
ر 			5	STRUCTURAL SEPARATIONS: Partitions that cross	13.0.2	· · · · · · J		
				structural separations have seismic or control joints.				
ſ	NC	N/A	U	HR—not required; LS—not required; PR—MH.	13.6.2	A.7.1.4		
<u> </u>				TOPS: The tops of ceiling-high framed or panelized	. 5.0.2			
				partitions have lateral bracing to the structure at a				
				spacing equal to or less than 6 ft (1.8 m).				
Ceilin	nas							
C	NC	N/A	U	HR—H; LS—MH; PR—LMH. SUSPENDED LATH AND	13.6.4	A.7.2.3		
~			~	PLASTER: Suspended lath and plaster ceilings have				
				attachments that resist seismic forces for every 12 ft ²				
				(1.1 m^2) of area.				
с	NC	N/A	U	HR—not required; LS—MH; PR—LMH. SUSPENDED	13.6.4	A.7.2.3		
-	-		-	GYPSUM BOARD: Suspended gypsum board ceilings				
				have attachments that resist seismic forces for every				
				12 ft ² (1.1 m ²) of area.				

Project Name
Project Number

AREA A, B, and D

						, , =- =
С	NC	N/A	U	HR—not required; LS—not required; PR—MH.	13.6.4	A.7.2.2
				INTEGRATED CEILINGS: Integrated suspended ceilings		
				with continuous areas greater than 144 ft ² (13.4 m ²)		
				and ceilings of smaller areas that are not surrounded		
				by restraining partitions are laterally restrained at a		
				spacing no greater than 12 ft (3.6 m) with members		
				attached to the structure above. Each restraint		
				location has a minimum of four diagonal wires and		
				compression struts, or diagonal members capable of		
				resisting compression.		
С	NC	N/A	U	HR—not required; LS—not required; PR—MH.	13.6.4	A.7.2.4
				EDGE CLEARANCE: The free edges of integrated		
				suspended ceilings with continuous areas greater		
				than 144 ft ² (13.4 m ²) have clearances from the		
				enclosing wall or partition of at least the following: in		
				Moderate Seismicity, 1/2 in. (13 mm); in High		
		NI / A		Seismicity, 3/4 in. (19 mm).	12 (4	
С	NC	N/A	U	HR—not required; LS—not required; PR—MH.	13.6.4	A.7.2.5
				CONTINUITY ACROSS STRUCTURE JOINTS: The ceiling		
				system does not cross any seismic joint and is not		
	NC	NI / A		attached to multiple independent structures.	12.6.4	A 7 2 C
С	NC	N/A	U	HR—not required; LS—not required; PR—H. EDGE SUPPORT: The free edges of integrated suspended	13.6.4	A.7.2.6
				ceilings with continuous areas greater than 144 ft ²		
				(13.4 m ²) are supported by closure angles or channels		
				not less than 2 in. (51 mm) wide.		
c	NC	N/A	U	HR—not required; LS—not required; PR—H.	13.6.4	A.7.2.7
-				SEISMIC JOINTS: Acoustical tile or lay-in panel ceilings		
				have seismic separation joints such that each		
				continuous portion of the ceiling is no more than		
				2,500 ft ² (232.3 m ²) and has a ratio of long-to-short		
				dimension no more than 4-to-1.		
Light	Fixtur	es				
c	NC	N/A	U	HR—not required; LS—MH; PR—MH.	13.6.4	A.7.3.2
				INDEPENDENT SUPPORT: Light fixtures that weigh	13.7.9	
				more per square foot than the ceiling they penetrate		
				are supported independent of the grid ceiling		
				suspension system by a minimum of two wires at		
				diagonally opposite corners of each fixture.		
			-			

Project Name
Project Number

AREA A, B, and D A.7.3.3 С NC N/A υ HR—not required; LS—not required; PR—H. 13.7.9 PENDANT SUPPORTS: Light fixtures on pendant \square supports are attached at a spacing equal to or less than 6 ft. Unbraced suspended fixtures are free to allow a 360-degree range of motion at an angle not less than 45 degrees from horizontal without contacting adjacent components. Alternatively, if rigidly supported and/or braced, they are free to move with the structure to which they are attached without damaging adjoining components. Additionally, the connection to the structure is capable of accommodating the movement without failure. С NC N/A U HR—not required; LS—not required; PR—H. LENS 13.7.9 A.7.3.4 COVERS: Lens covers on light fixtures are attached with safety devices. Cladding and Glazing NC N/A С U HR-MH; LS-MH; PR-MH. CLADDING ANCHORS: 13.6.1 A.7.4.1 Cladding components weighing more than 10 lb/ft² (0.48 kN/m²) are mechanically anchored to the structure at a spacing equal to or less than the following: for Life Safety in Moderate Seismicity, 6 ft (1.8 m); for Life Safety in High Seismicity and for Position Retention in any seismicity, 4 ft (1.2 m) NC N/A υ HR—not required; LS—MH; PR—MH. CLADDING 13.6.1 A.7.4.3 С ISOLATION: For steel or concrete moment-frame buildings, panel connections are detailed to accommodate a story drift ratio by the use of rods attached to framing with oversize holes or slotted holes of at least the following: for Life Safety in Moderate Seismicity, 0.01; for Life Safety in High Seismicity and for Position Retention in any seismicity, 0.02, and the rods have a length-todiameter ratio of 4.0 or less. NC N/A U HR—MH; LS—MH; PR—MH. MULTI-STORY PANELS: 13.6.1 A.7.4.4 С For multi-story panels attached at more than one floor level, panel connections are detailed to accommodate a story drift ratio by the use of rods attached to framing with oversize holes or slotted holes of at least the following: for Life Safety in Moderate Seismicity, 0.01; for Life Safety in High Seismicity and for Position Retention in any seismicity, 0.02, and the rods have a length-todiameter ratio of 4.0 or less.

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AREA A, B, and D

С	NC	N/A	U	HR—not required; LS—MH; PR—MH. THREADED	13.6.1	A.7.4.9
				RODS: Threaded rods for panel connections detailed		
				to accommodate drift by bending of the rod have a		
				length-to-diameter ratio greater than 0.06 times the		
				story height in inches for Life Safety in Moderate		
				Seismicity and 0.12 times the story height in inches		
				for Life Safety in High Seismicity and Position		
				Retention in any seismicity.		
С	NC	N/A	U	HR—MH; LS—MH; PR—MH. PANEL CONNECTIONS:	13.6.1.4	A.7.4.5
			\square	Cladding panels are anchored out of plane with a		
				minimum number of connections for each wall panel,		
				as follows: for Life Safety in Moderate Seismicity, 2		
				connections; for Life Safety in High Seismicity and for		
				Position Retention in any seismicity, 4 connections.		
C	NC	N/A	U	HR—MH; LS—MH; PR—MH. BEARING	13.6.1.4	A.7.4.6
				CONNECTIONS: Where bearing connections are used,		
				there is a minimum of two bearing connections for		
				each cladding panel.	12 (1 4	
С	NC	N/A	U	HR—MH; LS—MH; PR—MH. INSERTS: Where	13.6.1.4	A.7.4.7
				concrete cladding components use inserts, the inserts		
				have positive anchorage or are anchored to		
c	NC	N/A	U	reinforcing steel.	13.6.1.5	A.7.4.8
ر ر		IN/A	0	HR—not required; LS—MH; PR—MH . OVERHEAD GLAZING: Glazing panes of any size in curtain walls	15.0.1.5	A.7.4.8
				and individual interior or exterior panes more than 16		
				and individual interior of exterior paries more than to		
				ft^2 (1.5 m ²) in area are laminated annealed or		
				ft ² (1.5 m ²) in area are laminated annealed or laminated heat-strengthened glass and are detailed		
				laminated heat-strengthened glass and are detailed		
Maso	onrv Ve	neer				
Maso	onry Ve	neer N/A	U	laminated heat-strengthened glass and are detailed to remain in the frame when cracked.	13.6.1.2	A.7.5.1
	-		U	laminated heat-strengthened glass and are detailed to remain in the frame when cracked. HR—not required; LS—LMH; PR—LMH. TIES:	13.6.1.2	A.7.5.1
	-		U	laminated heat-strengthened glass and are detailed to remain in the frame when cracked.	13.6.1.2	A.7.5.1
	-		U	laminated heat-strengthened glass and are detailed to remain in the frame when cracked. HR—not required; LS—LMH; PR—LMH. TIES: Masonry veneer is connected to the backup with	13.6.1.2	A.7.5.1
	-		U	laminated heat-strengthened glass and are detailed to remain in the frame when cracked. HR—not required; LS—LMH; PR—LMH. TIES: Masonry veneer is connected to the backup with corrosion-resistant ties. There is a minimum of one tie	13.6.1.2	A.7.5.1
	-		U	laminated heat-strengthened glass and are detailed to remain in the frame when cracked. HR—not required; LS—LMH; PR—LMH. TIES: Masonry veneer is connected to the backup with corrosion-resistant ties. There is a minimum of one tie for every 2-2/3 ft ² (0.25 m ²), and the ties have spacing	13.6.1.2	A.7.5.1
	-		U	laminated heat-strengthened glass and are detailed to remain in the frame when cracked. HR—not required; LS—LMH; PR—LMH. TIES: Masonry veneer is connected to the backup with corrosion-resistant ties. There is a minimum of one tie for every 2-2/3 ft ² (0.25 m ²), and the ties have spacing no greater than the following: for Life Safety in Low or	13.6.1.2	A.7.5.1
	-		U	laminated heat-strengthened glass and are detailed to remain in the frame when cracked. HR—not required; LS—LMH; PR—LMH. TIES: Masonry veneer is connected to the backup with corrosion-resistant ties. There is a minimum of one tie for every 2-2/3 ft ² (0.25 m ²), and the ties have spacing no greater than the following: for Life Safety in Low or Moderate Seismicity, 36 in. (914 mm); for Life Safety in	13.6.1.2	A.7.5.1
	-		U 	laminated heat-strengthened glass and are detailed to remain in the frame when cracked. HR—not required; LS—LMH; PR—LMH. TIES: Masonry veneer is connected to the backup with corrosion-resistant ties. There is a minimum of one tie for every 2-2/3 ft ² (0.25 m ²), and the ties have spacing no greater than the following: for Life Safety in Low or Moderate Seismicity, 36 in. (914 mm); for Life Safety in High Seismicity and for Position Retention in any	13.6.1.2	A.7.5.1
c	NC	N/A		laminated heat-strengthened glass and are detailed to remain in the frame when cracked. HR—not required; LS—LMH; PR—LMH . TIES: Masonry veneer is connected to the backup with corrosion-resistant ties. There is a minimum of one tie for every 2-2/3 ft ² (0.25 m ²), and the ties have spacing no greater than the following: for Life Safety in Low or Moderate Seismicity, 36 in. (914 mm); for Life Safety in High Seismicity and for Position Retention in any seismicity, 24 in. (610 mm). HR—not required; LS—LMH; PR—LMH . SHELF ANGLES: Masonry veneer is supported by shelf angles		
c	NC	N/A		laminated heat-strengthened glass and are detailed to remain in the frame when cracked. HR—not required; LS—LMH; PR—LMH. TIES: Masonry veneer is connected to the backup with corrosion-resistant ties. There is a minimum of one tie for every 2-2/3 ft ² (0.25 m ²), and the ties have spacing no greater than the following: for Life Safety in Low or Moderate Seismicity, 36 in. (914 mm); for Life Safety in High Seismicity and for Position Retention in any seismicity, 24 in. (610 mm). HR—not required; LS—LMH; PR—LMH. SHELF		
c	NC	N/A		laminated heat-strengthened glass and are detailed to remain in the frame when cracked. HR—not required; LS—LMH; PR—LMH. TIES: Masonry veneer is connected to the backup with corrosion-resistant ties. There is a minimum of one tie for every 2-2/3 ft ² (0.25 m ²), and the ties have spacing no greater than the following: for Life Safety in Low or Moderate Seismicity, 36 in. (914 mm); for Life Safety in High Seismicity and for Position Retention in any seismicity, 24 in. (610 mm). HR—not required; LS—LMH; PR—LMH. SHELF ANGLES: Masonry veneer is supported by shelf angles or other elements at each floor above the ground floor.	13.6.1.2	A.7.5.2
c	NC	N/A		laminated heat-strengthened glass and are detailed to remain in the frame when cracked. HR—not required; LS—LMH; PR—LMH. TIES: Masonry veneer is connected to the backup with corrosion-resistant ties. There is a minimum of one tie for every 2-2/3 ft ² (0.25 m ²), and the ties have spacing no greater than the following: for Life Safety in Low or Moderate Seismicity, 36 in. (914 mm); for Life Safety in High Seismicity and for Position Retention in any seismicity, 24 in. (610 mm). HR—not required; LS—LMH; PR—LMH. SHELF ANGLES: Masonry veneer is supported by shelf angles or other elements at each floor above the ground floor. HR—not required; LS—LMH; PR—LMH. WEAKENED		
с С С	NC	N/A	U	laminated heat-strengthened glass and are detailed to remain in the frame when cracked. HR—not required; LS—LMH; PR—LMH. TIES: Masonry veneer is connected to the backup with corrosion-resistant ties. There is a minimum of one tie for every 2-2/3 ft ² (0.25 m ²), and the ties have spacing no greater than the following: for Life Safety in Low or Moderate Seismicity, 36 in. (914 mm); for Life Safety in High Seismicity and for Position Retention in any seismicity, 24 in. (610 mm). HR—not required; LS—LMH; PR—LMH. SHELF ANGLES: Masonry veneer is supported by shelf angles or other elements at each floor above the ground floor. HR—not required; LS—LMH; PR—LMH. WEAKENED PLANES: Masonry veneer is anchored to the backup	13.6.1.2	A.7.5.2
с С С	NC	N/A	U	laminated heat-strengthened glass and are detailed to remain in the frame when cracked. HR—not required; LS—LMH; PR—LMH. TIES: Masonry veneer is connected to the backup with corrosion-resistant ties. There is a minimum of one tie for every 2-2/3 ft ² (0.25 m ²), and the ties have spacing no greater than the following: for Life Safety in Low or Moderate Seismicity, 36 in. (914 mm); for Life Safety in High Seismicity and for Position Retention in any seismicity, 24 in. (610 mm). HR—not required; LS—LMH; PR—LMH. SHELF ANGLES: Masonry veneer is supported by shelf angles or other elements at each floor above the ground floor. HR—not required; LS—LMH; PR—LMH. WEAKENED	13.6.1.2	A.7.5.2

				Project Name Project Number			
					•		
					AREA	A, B, and D	
С	NC	N/A	U	HR—LMH; LS—LMH; PR—LMH. UNREINFORCED	13.6.1.1	A.7.7.2	
				MASONRY BACKUP: There is no unreinforced masonry backup.	13.6.1.2		
С	NC	N/A	U	HR—not required; LS—MH; PR—MH. STUD	13.6.1.1	A.7.6.1	
				TRACKS: For veneer with cold-formed steel stud	13.6.1.2		
				backup, stud tracks are fastened to the structure at a			
				spacing equal to or less than 24 in. (610 mm) on			
				center.			
C	NC	N/A	U	HR—not required; LS—MH; PR—MH. ANCHORAGE:	13.6.1.1	A.7.7.1	
				For veneer with concrete block or masonry backup,	13.6.1.2		
				the backup is positively anchored to the structure at a			
				horizontal spacing equal to or less than 4 ft along the floors and roof.			
c	NC	N/A	U	HR—not required; LS—not required; PR—MH.	13.6.1.2	A.7.5.6	
			Ū	WEEP HOLES: In veneer anchored to stud walls, the	13.0.1.2	A.7.3.0	
				veneer has functioning weep holes and base flashing.			
C	NC	N/A	U	HR—not required; LS—not required; PR—MH.	13.6.1.1	A.7.6.2	
-				OPENINGS: For veneer with cold-formed-steel stud	13.6.1.2		
				backup, steel studs frame window and door			
				openings.			
Para	pets, C	ornices	, Orna	mentation, and Appendages			
С	NC	N/A	U	HR—LMH; LS—LMH; PR—LMH. URM PARAPETS OR	13.6.5	A.7.8.1	
				CORNICES: Laterally unsupported unreinforced			
				masonry parapets or cornices have height-to-			
				thickness ratios no greater than the following: for Life			
				Safety in Low or Moderate Seismicity, 2.5; for Life			
				Safety in High Seismicity and for Position Retention in			
	NC	NI / A		any seismicity, 1.5.	1266	4702	
c	NC	N/A	U	HR—not required; LS—LMH; PR—LMH . CANOPIES: Canopies at building exits are anchored to the	13.6.6	A.7.8.2	
				structure at a spacing no greater than the following:			
				for Life Safety in Low or Moderate Seismicity, 10 ft (3.0			
				m); for Life Safety in High Seismicity and for Position			
				Retention in any seismicity, 6 ft (1.8 m).			
С	NC	N/A	U	HR—H; LS—MH; PR—LMH. CONCRETE PARAPETS:	13.6.5	A.7.8.3	
				Concrete parapets with height-to-thickness ratios			
				greater than 2.5 have vertical reinforcement.			
С	NC	N/A	U	HR—MH; LS—MH; PR—LMH. APPENDAGES:	13.6.6	A.7.8.4	
\Box				Cornices, parapets, signs, and other ornamentation or			
		ل ــــ		appendages that extend above the highest point of			
				anchorage to the structure or cantilever from			
				components are reinforced and anchored to the			
				structural system at a spacing equal to or less than 6			
				ft (1.8 m). This evaluation statement item does not			
				apply to parapets or cornices covered by other evaluation statements.			
				בימוטמנוטון גומוכוווכוונג.			

Project Name

Project Number

AREA A, B, and D

Maso	onry Ch	nimneys	5			
С	NC	N/A	U	HR—LMH; LS—LMH; PR—LMH. URM CHIMNEYS:	13.6.7	A.7.9.1
				Unreinforced masonry chimneys extend above the		
				roof surface no more than the following: for Life		
				Safety in Low or Moderate Seismicity, 3 times the		
				least dimension of the chimney; for Life Safety in High		
				Seismicity and for Position Retention in any		
				seismicity, 2 times the least dimension of the		
				chimney.		
С	NC	N/A	U	HR—LMH; LS—LMH; PR—LMH. ANCHORAGE:	13.6.7	A.7.9.2
				Masonry chimneys are anchored at each floor level, at		
				the topmost ceiling level, and at the roof.		
Stair	s					
С	NC	N/A	U	HR—not required; LS—LMH; PR—LMH. STAIR	13.6.2	A.7.10.1
				ENCLOSURES: Hollow-clay tile or unreinforced	13.6.8	
				masonry walls around stair enclosures are restrained		
				out of plane and have height-to-thickness ratios not		
				greater than the following: for Life Safety in Low or		
				Moderate Seismicity, 15-to-1; for Life Safety in High		
				Seismicity and for Position Retention in any		
				seismicity, 12-to-1.		
С	NC	N/A	U	HR—not required; LS—LMH; PR—LMH. STAIR	13.6.8	A.7.10.2
-				DETAILS: The connection between the stairs and the		
				structure does not rely on post-installed anchors in		
				concrete or masonry, and the stair details are capable		
				of accommodating the drift calculated using the		
				Quick Check procedure of Section 4.4.3.1 for		
				moment-frame structures or 0.5 in. for all other		
				structures without including any lateral stiffness		
				contribution from the stairs.		
Cont	ents ar	nd Furn	ishina			
<u>C</u>	NC	N/A	U	HR—LMH; LS—MH; PR—MH. INDUSTRIAL STORAGE	13.8.1	A.7.11.1
-			-	RACKS: Industrial storage racks or pallet racks more		
				than 12 ft high meet the requirements of ANSI/RMI		
				MH 16.1 as modified by ASCE 7, Chapter 15.		
с	NC	N/A	U	HR—not required; LS—H; PR—MH. TALL NARROW	13.8.2	A.7.11.2
<u> </u>			<u> </u>	CONTENTS: Contents more than 6 ft (1.8 m) high with	13.0.2	7.7.11.2
				a height-to-depth or height-to-width ratio greater		
				than 3-to-1 are anchored to the structure or to each		
				other.		
c	NC	N/A	U	HR—not required; LS—H; PR—H. FALL-PRONE	13.8.2	A.7.11.3
L		IN/A	0	-	13.0.2	A.7.11.3
				CONTENTS: Equipment, stored items, or other		
				contents weighing more than 20 lb (9.1 kg) whose		
				center of mass is more than 4 ft (1.2 m) above the		
				adjacent floor level are braced or otherwise		
				restrained.		

C N/A U HR—not required; LS—not required; PR—MH. 13.6.10 A.7.11.4 Image:
C NC N/A U HR—not required; LS—not required; PR—MH. 13.6.10 A.7.11.4 Image: Im
ACCESS FLOORS: Access floors more than 9 in. (229 mm) high are braced. NC N/A U HR—not required; LS—not required; PR—MH. 13.7.7 A.7.11.5 EQUIPMENT ON ACCESS FLOORS: Equipment and other contents supported by access floor systems are anchored or braced to the structure independent of the access floor. 13.6.10
C N/A U HR—not required; LS—not required; PR—MH. 13.7.7 A.7.11.5 Image: Description of the structure independent of the access floor. Image: Description of the structure independent of the access floor. Image: Description of the structure independent of the access floor.
C N/A U HR—not required; LS—not required; PR—MH. 13.7.7 A.7.11.5 Image:
EQUIPMENT ON ACCESS FLOORS: Equipment and 13.6.10 other contents supported by access floor systems are anchored or braced to the structure independent of the access floor. the access floor.
other contents supported by access floor systems are anchored or braced to the structure independent of the access floor.
anchored or braced to the structure independent of the access floor.
the access floor.
SUSPENDED CONTENTS: Items suspended without
L L L L I Iateral bracing are free to swing from or move with
the structure from which they are suspended without
damaging themselves or adjoining components.
Mechanical and Electrical Equipment
C NC N/A U HR—not required; LS—H; PR—H. FALL-PRONE 13.7.1 A.7.12.4
EQUIPMENT: Equipment weighing more than 20 lb 13.7.7
(9.1 kg) whose center of mass is more than 4 ft (1.2 m)
above the adjacent floor level, and which is not in-
line equipment, is braced.
C NC N/A U HR—not required; LS—H; PR—H. IN-LINE 13.7.1 A.7.12.5
EQUIPMENT: Equipment installed in line with a duct
or piping system, with an operating weight more
than 75 lb (34.0 kg), is supported and laterally braced independent of the duct or piping system.
C NC N/A U HR—not required; LS—H; PR—MH. TALL NARROW 13.7.1 A.7.12.6
\square \square \square EQUIPMENT: Equipment more than 6 ft (1.8 m) high 13.7.7
with a height-to-depth or height-to-width ratio
greater than 3-to-1 is anchored to the floor slab or
adjacent structural walls.
C NC N/A U HR—not required; LS—not required; PR—MH. 13.6.9 A.7.12.7
MECHANICAL DOORS: Mechanically operated doors
are detailed to operate at a story drift ratio of 0.01.
C NC N/A U HR—not required; LS—not required; PR—H. 13.7.1 A.7.12.8
SUSPENDED EQUIPMENT: Equipment suspended 13.7.7
without lateral bracing is free to swing from or move
with the structure from which it is suspended without
damaging itself or adjoining components.
C NC N/A U HR—not required; LS—not required; PR—H. 13.7.1 A.7.12.9
VIBRATION ISOLATORS: Equipment mounted on vibration isolators is equipped with horizontal
restraints or snubbers and with vertical restraints to
resist overturning.
C NC N/A U HR—not required; LS—not required; PR—H. 13.7.1 A.7.12.10
HEAVY EQUIPMENT: Floor-supported or platform- 13.7.7
supported equipment weighing more than 400 lb
(181.4 kg) is anchored to the structure.

					Project l		
					Project l	Number	
					AREA	A, B, and D	
с	NC	N/A	U	HR—not required; LS—not required; PR—H.	13.7.7	A.7.12.11	
				ELECTRICAL EQUIPMENT: Electrical equipment is			
		NI / A		laterally braced to the structure.	12 7 0	4 7 1 2 1 2	
c	NC	N/A	U	HR—not required; LS—not required; PR—H. CONDUIT COUPLINGS: Conduit greater than 2.5 in.	13.7.8	A.7.12.12	
				(64 mm) trade size that is attached to panels,			
				cabinets, or other equipment and is subject to			
				relative seismic displacement has flexible couplings			
				or connections.			
Pipin	g						
C	NC	N/A	U	HR—not required; LS—not required; PR—H.	13.7.3	A.7.13.2	
				FLEXIBLE COUPLINGS: Fluid and gas piping has	13.7.5		
				flexible couplings.			
C	NC	N/A	U	HR—not required; LS—not required; PR—H. FLUID	13.7.3	A.7.13.4	
				AND GAS PIPING: Fluid and gas piping is anchored	13.7.5		
c	NC	N/A	U	and braced to the structure to limit spills or leaks. HR—not required; LS—not required; PR—H. C-	13.7.3	A.7.13.5	
			Ū	CLAMPS: One-sided C-clamps that support piping	13.7.5	A.7.13.3	
				larger than 2.5 in. (64 mm) in diameter are restrained.	13.7.5		
С	NC	N/A	U	HR—not required; LS—not required; PR—H.	13.7.3	A.7.13.6	
				PIPING CROSSING SEISMIC JOINTS: Piping that crosses	13.7.5		
				seismic joints or isolation planes or is connected to			
				independent structures has couplings or other details			
				to accommodate the relative seismic displacements.			
Ducts					10 7 6		
C	NC	N/A	U	HR—not required; LS—not required; PR—H. DUCT	13.7.6	A.7.14.2	
				BRACING: Rectangular ductwork larger than 6 ft ² (0.56 m ²) in cross-sectional area and round ducts larger			
				than 28 in. (711 mm) in diameter are braced. The			
				maximum spacing of transverse bracing does not			
				exceed 30 ft (9.2 m). The maximum spacing of			
				longitudinal bracing does not exceed 60 ft (18.3 m).			
С	NC	N/A	U	HR—not required; LS—not required; PR—H. DUCT	13.7.6	A.7.14.3	
				SUPPORT: Ducts are not supported by piping or electrical conduit.			
c	NC	N/A	U	HR—not required; LS—not required; PR—H.	13.7.6	A.7.14.4	
-				DUCTS CROSSING SEISMIC JOINTS: Ducts that cross			
				seismic joints or isolation planes or are connected to			
				independent structures have couplings or other			
				details to accommodate the relative seismic			
				displacements.			
Eleva							
C	NC	N/A	U	HR—not required; LS—H; PR—H. RETAINER	13.7.11	A.7.16.1	
				GUARDS: Sheaves and drums have cable retainer guards.			
c	NC	N/A	U	HR—not required; LS—H; PR—H. RETAINER PLATE:	13.7.11	A.7.16.2	
			-	A retainer plate is present at the top and bottom of	13.7.11		
				both car and counterweight.			

Project Name Project Number AREA A, B, and D A.7.16.3 С NC N/A U HR—not required; LS—not required; PR—H. 13.7.11 ELEVATOR EQUIPMENT: Equipment, piping, and other components that are part of the elevator system are anchored. NC N/A U HR—not required; LS—not required; PR—H. 13.7.11 A.7.16.4 С SEISMIC SWITCH: Elevators capable of operating at \square speeds of 150 ft/min (0.30 m/min) or faster are equipped with seismic switches that meet the requirements of ASME A17.1 or have trigger levels set to 20% of the acceleration of gravity at the base of the structure and 50% of the acceleration of gravity in other locations. HR—not required; LS—not required; PR—H. 13.7.11 С NC N/A U A.7.16.5 SHAFT WALLS: Elevator shaft walls are anchored and reinforced to prevent toppling into the shaft during strong shaking. NC N/A U 13.7.11 A.7.16.6 С HR—not required; LS—not required; PR—H. COUNTERWEIGHT RAILS: All counterweight rails and \square divider beams are sized in accordance with ASME A17.1. NC N/A U HR—not required; LS—not required; PR—H. 13.7.11 A.7.16.7 С BRACKETS: The brackets that tie the car rails and the \square counterweight rail to the structure are sized in accordance with ASME A17.1. A.7.16.8 NC N/A 13.7.11 С HR—not required; LS—not required; PR—H. U SPREADER BRACKET: Spreader brackets are not used to resist seismic forces. NC С N/A HR—not required; LS—not required; PR—H. GO-U 13.7.11 A.7.16.9 SLOW ELEVATORS: The building has a go-slow \square elevator system.

^a Performance Level: HR = Hazards Reduced, LS = Life Safety, and PR = Position Retention.

^b Level of Seismicity: L = Low, M = Moderate, and H = High.

December 2022 Project No: P-2604-20

Appendix C: Preliminary Seismic Retrofit Drawings

OAK HEIGHTS ELEMENTARY SCHOOL SEISMIC RETROFIT

PRELIMINARY DESIGN

SWEET HOME SCHOOL DISTRICT 605 ELM STREET SWEET HOME, OR 97386





24 Main Street, Sute 2, Oregon Oregon 97045 | 503-659-220

SWEET HOME SCHOOL DISTRICT 1920 LONG STREET SWEET HOME, OR 97386

OAK HEIGHTS ELEMENTARY SCHOOL SEISMIC RETROFIT



G0.0

COVER SHEET

P-2801-22

DEC. 2022

BJS

MRS





524 Main Street, Suite 2, Oregon City, Oregon 97045 | 503-659-2205

SWEET HOME SCHOOL DISTRICT 1920 LONG STREET SWEET HOME, OR 97386

OAK HEIGHTS ELEMENTARY SCHOOL SEISMIC RETROFIT







December 2022 Project No: P-2604-20

Appendix D: Geotechnical Information



OSHPD

605 Elm St, Sweet Home, OR 97386, USA

Latitude, Longitude: 44.3914795, -122.7368063000001



Туре	Description	Value
Hazard Level		BSE-2E
SS	spectral response (0.2 s)	0.442
S ₁	spectral response (1.0 s)	0.233
S _{XS}	site-modified spectral response (0.2 s)	0.639
S _{X1}	site-modified spectral response (1.0 s)	0.498
f _a	site amplification factor (0.2 s)	1.447
f _v	site amplification factor (1.0 s)	2.133

Description	Value
	BSE-1E
spectral response (0.2 s)	0.139
spectral response (1.0 s)	0.059
site-modified spectral response (0.2 s)	0.222
site-modified spectral response (1.0 s)	0.143
site amplification factor (0.2 s)	1.6
site amplification factor (1.0 s)	2.4
	spectral response (0.2 s) spectral response (1.0 s) site-modified spectral response (0.2 s) site-modified spectral response (1.0 s) site amplification factor (0.2 s)

Туре	Description	Value
Hazard Level		T-Sub-L Data
T-Sub-L	Long-period transition period in seconds	16

National Flood Hazard Layer FIRMette



2,000 Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020



Oak Heights E.S. Landsliding Hazard



Oak Heights E.S. Faults and Liquefaction



02-6216-01 December 15, 2022

Kristofer Tonning ZCS Engineering and Architecture 524 Main Street, Suite, 2 Oregon City, OR 97045

SUBJECT: PRELIMINARY SEISMIC EVALUATION LETTER OAK HEIGHTS ELEMENTARY SCHOOL 605 ELM STREET SWEET HOME, OREGON

Mr. Tonning:

This letter presents the results of our preliminary planning level (office study) seismic risk assessment of Oak Heights Elementary School for a potential Seismic Retrofit of the school structures. The subject school is located at 605 Elm Street, at the southeast corner of its intersection with 6th Avenue, in Sweet Home, Oregon.

This assessment was done in order to provide preliminary geotechnical and geologic information and evaluate the likelihood and consequences of geotechnical/geologic related seismic failures, including liquefaction and landslide potential during the design seismic event, for consideration regarding the potential seismic retrofit.

This assessment was prepared by a professional engineer under the direct supervision of Dennis Duru, PE, CEG, RG, who is a professional engineer in the state of Oregon and also licensed as a certified engineering geologist by the Oregon State Board of Geologist Examiners (OSBGE). It should be noted that no subsurface exploration of the site was conducted. This study was based solely on the review of readily available data. Some of the data reviewed included: online DOGAMI Interactive Maps, Open-file sourced OGDC-6 Geology Mapping (loaded in ArcGIS), Google Earth 2022, NRCS Web Soil Survey, and well log and geotechnical boring log data from Oregon Water Resources Department Well Report Query.

This preliminary evaluation has been provided for consideration by the school district and their design team, for preliminary project planning and design purposes.

SITE AND PROJECT DESCRIPTION

The site is currently occupied by a functioning elementary school. The school facilities consist of interconnected school buildings which are surrounded by lawn/landscaping areas, access roads, parking lots, walkways, play fields and open space. The site generally has mild slopes (3-5%) down to the northeast. There are some small retaining walls along the north and east edges of the site as well. Undeveloped areas of the site consist of well-maintained lawn and a few scattered trees.

We understand the School District and their consulting design team are conducting preliminary facilities review to determine the level and extent of seismic retrofit needed for the structures on this campus. Their review will be based, in part, on the evaluation of the potential geologic hazards (such as liquefaction) provided in this letter, and an evaluation of the potential structural damage to these facilities associated with the design seismic event. This evaluation and the findings and conclusions of the facilities review will also likely be used to pursue grant funding for completion of the seismic retrofit work.

SUBSURFACE CONDITIONS

Soil. According to the *Custom Soil Resource Report* for this area, provided by the USDA Natural Resources Conservation Service (NRCS) Web Soil Survey website, the soil in the upper 5 feet of the project site subsurface is mapped as follows:

- The 9D-Bellpine Silty Clay Loam: This soil unit is mapped to cover a small portion of the southwest field area of the school premises and is not located beneath or near any of the facility structures. Based on the soil mapping, the upper 3.5 feet of the subsurface consists of medium to high plasticity silty Clay, which is underlain by weathered bedrock. The Liquid Limit (LL) of the soils is between 35 and 60 and the fine content (percent silt and clay) is between 70% and 90% for the clayey Silt.
- The 16B-Briedwell Silt Loam: This soil unit is mapped to cover the majority of the school premises. Based on the soil mapping, the upper 5 feet of the subsurface consists of mixed grain soils (clay, silt, sand and gravel) of low to medium plasticity. The Liquid Limit (LL) of the soils is between 25 and 40 and the fine content (percent silt and clay) is between 15% and 85%.

Review of well and geotechnical boring log data in the immediate vicinity of the project site indicates that the upper clayey and sandy Silt soils extend to depths of between 2 and 15 feet from the ground surface before encountering the sandy gravels.

Groundwater. The well log data reviewed show static groundwater levels near the project site at between 15 and 25 feet below the ground surface (at the time of completion of the wells).

GEOLOGIC OR SEISMIC INDUCED HAZARDS

Summary of Site Geology and Seismicity. The mapped geologic unit in the project area consist of Quaternary surficial deposits (Qtg) comprising of unconsolidated sediments, which at this location are talus colluvium of an old landslide that originated upslope of the project area. Silty clay and clayey gravel were part of this deposit. The surficial deposits are underlain by the Early High Cascade Volcanics (Tms), predominately basalt in the project area. Reviewed well log data shows that the cemented gravels, claystone and sandstone extend to between 60 and 160 feet before encountering the basalt.

The project site is in relatively close proximity (within 85 km) to the Cascadia Subduction Zone (CSZ) off the Oregon coast which is considered capable of Magnitude 8.5 or greater earthquakes.

Landslides/Slope Instability. The project site is located on a parcel of land that has mild slopes. Some short (2-5 feet tall) retaining walls have been constructed in localized areas along the east edge of the site, within 5 to 8 feet of the structures and near Elm Street on the north edge of the project site in landscape areas.

A landslide feature is mapped in the project area by the State Landslide Information Database for Oregon (SLIDO, 2021), however, the feature appears to be deposits of an old landslide originating from upslope, consistent with the air photos (Google Earth, 2016) and Lidar imagery (bare earth and highest hit imagery) of the Sweet Home Quadrangle (DOGAMI, 2021). It is possible the talus colluvium at the project site has consolidated over time. Site specific geotechnical investigation will verify the density of these deposits. There is no indication that the ancient landslide that deposited these soils is still active. The State Landslide Information Database for Oregon (SLIDO, 2021) mapped portions of the site as having low to moderate risk for a regional scale landslide. <u>However, given that the natural slopes are mild; in our professional opinion, the risk of</u> the site being impacted by a landslide during the design seismic event is **low**.

Liquefaction and Lateral Spread Hazard Potential. The project is underlain by silty Clay and clayey Gravel to depths of between 2.5 and 5 feet over weathered bedrock. As stated earlier, static groundwater was observed (by others) at depths between 15 and 25 feet below the ground surface near the project site. Given the relatively deep groundwater level, and the possible range of fine content of the site's subsurface, liquefaction and lateral spread is considered to be a very **low** potential hazard for this site. See more information in the Liquefaction evaluation section below. **Expansive Soils**. The NRCS web soil survey mapping shows that the silts and clays mapped on the project site have a plasticity index (PI) of between 0 and 25. Soils with a PI in this range have zero to moderate expansion potential.

Ground Rupture. No active fault traces or local faults are mapped within the project site (USGS; 2021). Therefore, the risk of damage at the site due to ground rupture is considered low.

Ground Shaking. Project structures, including foundations and retaining walls, must be designed for very strong ground shaking potential during the anticipated seismic event.

Seismic Ground Amplification or Resonance. No known, unusually hazardous amplification or resonance effects from seismic waves have been associated with the subsurface soil/bedrock conditions in the project area.

LIQUEFACTION EVALUATION

The liquefaction phenomenon occurs in cohesionless soils (non-plastic silts and sands) that are saturated and loose (low density, uncompacted or poorly compacted). When loose, cohesionless soils are saturated, which is the case when soil is below the water table, then water fills the soil pores. In response to compression (when a load is applied to the loose, saturated soil), the increase in pressure on the water causes it to attempt to migrate or dissipate towards zones of low pressure (i.e., the water gets pushed/pumped to portions of the soil where the soil pores are not already filled). It should be noted that water, in a practical sense, is an incompressible liquid (very highly resistant to changes in volume when subjected to changes in pressure). Therefore, if the applied load is rapid and large enough, or if it is repeated many times (cyclic loading) like during an earthquake, such that there is not enough time for the water to dissipate before the next cycle of loading is applied, then the water pressure may build up in the pores to a degree where it becomes greater than the grain-to-grain contact stresses of the soil. The grainto-grain contact stresses are the source of the soil shear strength and stability which supports structure foundations and overburden soils. This buildup of excess pore water pressure can result in a partial or total loss of the soil strength, at which point the soil will lose all its stability, be deformed and may be observed to flow like a liquid, hence "liquefaction", and will not likely be able to support structures.

As observed in the NRCS soil mapping and in the geotechnical and well logs reviewed, the site is underlain by silty clays and clayey Gravels to depths of between 2.5 and 5 feet, over mixed Sandstone/Claystone bedrock. Groundwater was observed between 15 and 25 feet below the ground surface within cemented gravels or the sandstone bedrock unit. Unsaturated Soils with the fine content as shown in gradation analyses found on the NRCS Web soil survey data, and with consistencies described in the well and geotechnical boring logs reviewed, are not known to liquefy in a seismic event. Therefore, in our professional opinion, the potential for liquefaction of the site soils that could adversely affect the site or have significant adverse impacts on the structures during a seismic event is very **low**.

CONCLUSIONS

Based on the evaluation contained in this letter, in our professional opinion the soils conditions at the site are suitable for a conventional seismic retrofit. The soils conditions we identified during this desk study are **not** susceptible to large scale liquefaction or landslides that will adversely impact the structure. Prior to final retrofit design and construction, additional geotechnical investigation and laboratory testing are highly recommended in order to confirm these preliminary findings and to provide more detailed analyses and recommendations.

If/when the final design and construction phase of work for this seismic retrofit project begins, we anticipate the following additional tasks will need to be accomplished:

- 1. Subsurface Exploration.
- 2. Laboratory testing for determining soil gradation and strength characteristics of the site soils.
- 3. Evaluation of data for developing geotechnical design parameters and recommendations (site response seismic analysis, excavations/embedment depths, subgrade preparations, cuts/fills, and foundation/slab support, etc.).
- 4. Ground motion hazard analysis to determine spectral acceleration parameters for the school structures and retrofit elements.

These items would be provided as part of a final Seismic Retrofit Geotechnical Design Report.

LIMITATIONS

The analyses, conclusions and recommendations contained in this letter are based on inferred site conditions as they were reported in the various documents and online resources reviewed. They may not represent the actual subsurface condition present at the project site.

This letter was prepared for the use of the School District and their design team for evaluation purposes. It should be made available to others for informational data only. This letter should not be used for contractual purposes as a warranty of site subsurface conditions. It should also not be used at other sites or for projects other than the one intended.

We have performed these services in accordance with generally accepted geotechnical engineering and professional geology practices in Oregon, at the time the study was accomplished. No other warranties, either expressed or implied, are provided.

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THE GALLI GROUP GEOTECHNICAL CONSULTING

Lyn Chand

Lyn Chand, PE Project Professional

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Dennis Duru, PE, CEG, RG. Senior Engineer/Geologist



December 2022 Project No: P-2604-20

Appendix E: Construction Cost Estimate Worksheets

ENGINEER'S OPINIO	N OF PROBABLE COST	- OAK HEIGHTS ELE	EMENTARY SCHOOL SE	ISMIC REHABILI	TATION	
		SUMMARY				
Description	Deficiencies (Ref. Seismic Evaluation Report Sec. 7.0)	Quantity	Units	Unit Price	Total Pr Construct	
		GENERAL CONDITIO	ONS			
General Conditions Preconstruction Services		10% 2%	% %		\$ \$	210,794.00 42,158.80
Escalation Bonding & Insurance Contractor Profit & Overhead		7% 3% 5%	% % %		\$ \$ \$	165,262.50 70,826.78 118,044.64
				Conditions Subtotal	\$	607,086.72
		Non-Structural Elem				
Misc MEP Misc Non-Structural	N1-N3, N8-N10, N14-N18 N4-N7, N11-N13	1 1	Lump Sum Lump Sum	\$ 135,800.00 \$ 54,300.00	\$ \$	135,800.00 54,300.00
I			No	n-Structural Subtotal	\$	190,100.00
	Const	truction Cost Per Bui	Iding Part			,
				ding Part 'A' Subtotal	\$ 1,3	366,850.00
				ding Part 'B' Subtotal		461,540.00
				ding Part 'D' Subtotal		89,450.00
				onstruction Cost		5,000.00
			Contingenc	y 15%	\$ 40	7,250.00
			Total Co	onstruction Cost	\$ 3,12	2,250.00
		Cost Estimate Sumn	nary			
Engineering Architectural Consulting Structural / Rehabilitation Engineering Geotechnical Consulting Materials Testing for Design				\$ 46,800.00 \$ 343,400.00 \$ 29,700.00 \$ 23,400.00	\$	443,300.00
Construction Management Construction Sub-Total Construction Cost Special Inspection Services for Construction				\$ 2,715,000.00 \$ 26,500.00 \$ 93,700.00	\$ \$ 2	93,700.00 2,835,200.00
Permitting Fees Relocation of FF&E Contingency					\$ \$	40,700.00 407,250.00
			Total Project Funding	g Requirement	\$ 3,820),150.00

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		BUILDING PART	· 'A'		
Description	Deficiencies (Ref. Seismic Evaluation Report Sec. 7.0)	Quantity	Units	Unit Price	Total Price for Construction Item
		olition & Asbestos A			
Soft Demolition Hard Demolition	S1, S3, S4, S7, S8 S3	270000 1700	Square Foot Square Foot	\$ 2.00 \$ 20.00	\$ 540,000.00 \$ 34,000.00
			Demolitic	on & Asbestos Subtotal	\$ 574,000.00
	Foundation	/ Floor Strengtheni	ing Construction		
Bolting of Extg Walls to footings Spread Footings for Columns / Holdown	S5, S9 S3	650 6	Linear Foot Each	\$ 35.00 \$ 4,000.00	\$ 22,750.00 \$ 24,000.00
			Fou	Indation Level Subtotal	\$ 46,750.00
	Wal	Strengthening Cor	struction		
Sheathing of Existing Walls	S4	5100	Square Foot	\$ 5.00	\$ 25,500.00
New 2x Framed Shear Walls Interior Wall Finish Repair	S1B, S3, S5 S4, S5	1500 6600	Square Foot Square Foot	\$ 10.00 \$ 2.00	\$ 15,000.00 \$ 13,200.00
Exterior Finish Repair / Installation	S4, 35 S1B, S3, S4, S5	1500	Square Foot	\$ 25.00	\$ 37,500.0
Brick Veneer Ties	N11	550	Square Foot	\$ 30.00	\$ 16,500.0
Painting	S1, S2, S3, S4, S5, S9	26500	Square Foot	\$ 3.00	\$ 79,500.00
Structural Steel Frame	S3	3	Tonn	\$ 21,800.00	\$ 65,400.00
			Wall	Strengthening Subtotal	\$ 252,600.00
	Roo	f Strengthening Cor	nstruction		
Diaphragm Attachments - In-Plane Shear	S1B, S6, S7, S8	650	Linear Foot	\$ 20.00	\$ 13,000.00
New Drag Beam	S6	19	EA	\$ 2,500.00	\$ 47,500.00
Seismic Isolation from Adjacent Building New Ceiling Sheathing	S2 S6, S7, S8	15 26500	Linear Foot Square Foot	\$ 400.00 \$ 5.00	\$ 6,000.00 \$ 132,500.00
New Wood Beams	S6	100	Linear Foot	\$ 30.00	\$ 3,000.0
New Batt Insulation in Attic	S7, S8	26500	Square Foot	\$ 5.00	\$ 132,500.0
New Suspended Ceiling	S6, S7, S8	26500	Square Foot	\$ 6.00	\$ 159,000.00
			Roof	Strengthening Subtotal	\$ 493,500.0
			Building Part 'A' - Total		\$ 1,366,850.00

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		0,000 22	EMENTARY SCHOOL S		
		BUILDING PART -	'B'		
Description	Deficiencies (Ref. Seismic Evaluation Report Sec. 7.0)	Quantity	Units	Unit Price	Total Price for Construction Item
		nolition & Asbestos A	batement		
Soft Demolition	S1A	3400	Square Foot	\$ 2.00	\$ 6,800.0
Roof Structure Demolition	S7, S8	4800 4800	Square Foot	\$ 6.00 \$ 5.00	\$ 28,800.0 \$ 24,000.0
Abatement Built-Up Roof Demo	S7, S8 S7, S8	4800 4800	Square Foot Square Foot	\$ 5.00 \$ 4.00	\$ 24,000.0 \$ 19,200.0
			Domolitic	on & Asbestos Subtotal	\$ 78.800.0
	Foundatio	n / Floor Strengthenii		on & Aspesios Subiolai	\$ 78,800.0
Spread Footings for Columns / Holdown	N13A	5	Each	\$ 4,000.00	\$ 20,000.0
Bolting of Extg Walls to footings Concrete Repair & Patching	85, 89 N13A	230 80	Linear Foot Square Foot	\$ 35.00 \$ 3.00	\$ 8,050.0 \$ 240.0
			Fou	undation Level Subtotal	\$ 28,290.00
	Wa	III Strengthening Con	struction		
Sheathing of Existing Walls	S1A	3400	Square Foot	\$ 5.00	\$ 17,000.0
Light Steel Columns	N13A	5	EA	\$ 1,600.00	\$ 8,000.0
Painting Exterior Finish Repair / Installation	N1A, S7, S8 S1A	4800 3400	Square Foot Square Foot	\$ 3.00 \$ 25.00	\$ 14,400.0 \$ 85,000.0
			Wall	Strengthening Subtotal	\$ 124,400.0
	Ro	of Strengthening Con			
Existing Truss Strengthening	S15	4	EA	\$ 30,000.00	\$ 120,000.0
New Roof Sheathing	S7, S8	4800	Square Foot	\$ 4.00	\$ 19,200.0
Diaphragm Attachments - Out-of-Plane Diaphragm Attachments - In-Plane Shear	N13B S1B	65 300	Linear Foot	\$ 50.00 \$ 20.00	\$ 3,250.0 \$ 6,000.0
New 3-ply Built Up Roof	S7, S8	4800	Linear Foot Square Foot	\$ 20.00 \$ 17.00	\$ 81,600.0
			- 1		
	<u> </u>		Roof	Strengthening Subtotal	\$ 230,050.0
				J	

		BUILDING PART -	'D'			
Description	Deficiencies (Ref. Seismic Evaluation Report Sec. 7.0)	Quantity	Units	Uni	t Price	Total Price for Construction Item
	Der	molition & Asbestos A	batement			
Soft Demolition TPO / Comp / Metal Roof Demo	S11, S12 S14	1200 1200	Square Foot Square Foot	\$		\$ 2,400.0 \$ 2,400.0
				on & Asbesto	os Subtotal	\$ 4,800.0
		on / Floor Strengthenin	-			
Floor Finish Patch / Replacement	S10	150	Square Foot	\$	7.00	\$ 1,050.0
			Fou	undation Lev	el Subtotal	\$ 1,050.0
	W	all Strengthening Cons				,
New 2x Framed Shear Walls Interior Wall Finish Repair Painting	S10 S10 S10	1000 1000 1200	Square Foot Square Foot Square Foot	\$ \$ \$	2.00	\$ 10,000.0 \$ 2,000.0 \$ 3,600.0
			Wall	Strengthenir	ng Subtotal	\$ 15,600.0
	Ro	of Strengthening Cons	struction		P.	
New 6" polyisociurinate rigid insulation Re-Nail Existing Plywood New 3-ply Built Up Roof Diaphragm Attachments - Out-of-Plane Diaphragm Attachments - In-Plane Shear New Drag Beam	514 514 514 N4, 511 512 513	1200 1200 1200 350 300 1	Square Foot Square Foot Square Foot Linear Foot Linear Foot EA	\$ \$ \$ \$ \$ \$	3.00 17.00 50.00 20.00	\$ 18,000.0 \$ 3,600.0 \$ 20,400.0 \$ 17,500.0 \$ 6,000.0 \$ 2,500.0
			Roof	Strengthenir	ng Subtotal	\$ 68,000.0
			uilding Part 'D' - Total	-	-	\$ 89,450.00

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December 2022 Project No: P-2604-20

Appendix F: Rapid Visual Screening

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action and	-		-	-	H-	Geo	logic Ha	azards:	Liquefac	ction: Yes		< Lands	lide: Ye s	NoDNK	Surf. Ru	upt.: Ye	No NK
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FEMA BUILDING TYPE Do No Knov	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LM)	S4 (RC	S5 (URM	C1 (MRF)	C2 (SW)	C3 (URM	PC1 (TU)	PC2	RM1 (FD)	RM2 (RD)	URM	MH
Basic Score	4.1	3.7	3.2	2.3	2.2	2.9	SW) 2.2	INF) 2.0	1.7	2.1	INF) 1.4	1.8	1.5	1.8	1.8	1.2	2.2
Severe Vertical Irregularity, VL1	-1.3	-1.3	-1.3	-1.1	-1.0	-1.2	-1.0	-0.9	-1.0	-1.1	-0.8	-1.0	-0.9	-1.0	-1.0	-0.8	NA
Moderate Vertical Irregularity, VL1	-0.8	-0.8	-0.8	-	-0.6	-0.8	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Plan Irregularity, PL1	-1.3	-1.2	<u>-1.1</u>	₹ -0.9	-0.8	-1.0	-0.8	-0.7	-0.7	-0.9	-0.6	-0.8	-0.7	-0.7	-0.7	-0.5	NA
Pre-Code	-0.8	-0.9	-0.9	-	-0.5	-0.7	-0.6	-0.2	-0.4	-0.7	-0.1	-0.4	-0.3	-0.5	-0.5	-0.1 NA	-0.3
Post-Benchmark Soil Type A or B	1.5 0.3	1.9 0.6	2.3 0.9	1.4 0.6	1.4 0.9	1.0 0.3	1.9 0.9	NA 0.9	1.9 0.6	2.1 0.8	NA 0.7	2.1 0.9	2.4 0.7	2.1 0.8	2.1 0.8	NA 0.6	1.2 0.9
Soil Type E (1-3 stories)	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
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
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
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Interior: 🗌 None	Visible	🛛 Ent	ered	Detailed	Structu	ural Evalu	ation?		Π Υθ	es, unkno	wn FEN	IA buildi	na type o	r other b	uildina		
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Exterior Falling lazards: Unbraced Chinneys Parages Heavy Cladding or Heavy Veneer Parages Columents: Define: Define: SKETCH Columents: Columents: SKETCH Additional sketches or comments: on separate page Columents: Columents: SKETCH Columents: SKETCH Columents: SKETCH Columents: Columents: Columents: SKETCH Columents: SKETCH Columents: Sector Motor Wi Vin		Homontary Solo		102		6	Irreg	gularitie	s:				ity)					
Hazards: Barages Appendages COMMENTS: COMMENTS: COMMENTS:			· : - "		and the second second													
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Second Operation O				unt		-	СО	MMENT	S:									
BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, SL1 FEMA BUILDING TYPE Do Not Know W1 W1 W2 S1 S2 N3 S4 N5 C1 C2 RM1 RM2 URM MH Basic Score 4.1 3.7 23 2.2 2.9 2.2 2.0 1.7 1.1 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.1 1.0 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.0 1.0 1.1 1.0 0.9 1.0 1.0 1.0 1.0 1.0 1.0 0.0 0.6		1		Can-	1 per	の語												
BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, SL1 FEMA BUILDING TYPE Do Not Know W1 W1 W2 S1 S2 N3 S4 N5 C1 C2 RM1 RM2 URM MH Basic Score 4.1 3.7 23 2.2 2.9 2.2 2.0 1.7 1.1 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.1 1.0 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.0 1.0 1.1 1.0 0.9 1.0 1.0 1.0 1.0 1.0 1.0 0.0 0.6			-10-11	The		The second												
BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, SL1 FEMA BUILDING TYPE Do Not Know W1 W1 W2 S1 S2 K1 Clipson Clipson Clipson URM MH Basic Score 4.1 3.7 22.2 2.2 2.0 1.7 2.1 1.4 1.8 1.5 1.1 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.1 1.0 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 </td <th></th> <td>1000</td> <td>and a</td> <td></td> <td>9-11</td> <td></td> <td>-</td> <td></td>		1000	and a		9-11		-											
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BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, SL1 FEMA BUILDING TYPE Do Not Know W1 W1 W2 S1 S2 K1 Clipson Clipson Clipson URM MH Basic Score 4.1 3.7 22.2 2.2 2.0 1.7 2.1 1.4 1.8 1.5 1.1 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.1 1.0 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 </th <th>Testilit que a serie a</th> <th></th> <th>1</th> <th></th> <th>4459</th> <th>10001</th> <th>127</th> <th></th>	Testilit que a serie a		1		4459	10001	127											
FEMA BUILDING TYPE Do Not Know W1 W1 W2 S1 (MF) S2 (FR) S3 (M) S4 (FR) C1 (MF) C3 (MF) PC1 (FD) PC1 (FD												· · · ·						
Know (MRF) (BR) (UM (MRF) (SM)																		
Basic Score 4.1 3.7 3.2 2.3 2.2 2.9 2.2 2.0 1.7 2.1 1.4 1.8 1.8 1.8 1.8 1.2 2.2 Severe Vertical Irregularity, V1: -0.8 -0.3 -1.0 -0.9 -1.0 -1.0 -0.4 -1.0 -0.9 -1.0 -1.0 -0.8 NA Moderate Vertical Irregularity, V1: -0.8 -0.8 -0.6 -0.7 -0.7 -0.7 -0.7 -0.7 -0.7 -0.7 -0.7 -0.7 -0.7 -0.6 -0.6 -0.8 -0.7 -0.3 -0.4 -0.3 -0.5 <th></th> <th></th> <th>W1A</th> <th>W2</th> <th></th> <th></th> <th></th> <th>(RC</th> <th>(URM</th> <th></th> <th></th> <th></th> <th></th> <th>PC2</th> <th></th> <th></th> <th>URM</th> <th>мн</th>			W1A	W2				(RC	(URM					PC2			URM	мн
Severe Vertical Irregularity, V ₁₁ -1.3 -1.3 -1.3 -1.1 -1.0 -1.2 -1.0 -0.9 -1.0 -0.9 -1.0 -0.9 -1.0 -0.9 -1.0 -0.9 -1.0 -0.9 -1.0 -0.9 -1.0 -0.0 -0.6	Basic Score	41	37	32	23	22	29		· · ·	17	21	,	18	15	1.8	18	12	22
Plan Irregularity, P⊥1 1.3 -1.2 1.1 -0.9 -0.8 -1.0 -0.8 -0.7 -0.7 -0.7 -0.7 -0.7 -0.7 -0.7 -0.7 -0.7 -0.7 -0.7 -0.7 -0.7 -0.7 -0.7 -0.7 -0.7 -0.5 NA Pre-Code -0.8 -0.9 -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 Soil Type A or B 0.3 0.6 0.9 0.6 0.8 0.7 0.9 0.6 0.8 0.7 0.7 0.4 -0.5 -0.5 -0.1 1.0.3 Soil Type E (1-3 stories) 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 -0.3 -0.5 0.5 0.5 0.0 -0.6 -0.8 -0.4 NA -0.5 -0.6 -0.8 -0.4 NA -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 </th <th></th>																		
Pre-Code 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 Post-Benchmark 1.5 1.9 2.3 1.4 1.4 1.0 1.9 NA 1.9 2.1 NA 2.1 2.4	3	-0.8	-0.8		-0.7	-0.6	-0.8	-0.6	-0.6	-0.6	-0.6	-0.5	-0.6	-0.6	-0.6	-0.6	-0.5	NA
Post-Benchmark 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 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 Soil Type E (-3 stories) 0.0 0.1 -0.3 -0.4 -0.5 0.0 -0.4 -0.5 -0.2 -0.4 -0.5 -0.6 -0.6 -0.6 -0.8 -0.4 NA -0.5 -0.6 <					1													
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 0.8 0.8 0.6 0.9 Soil Type E (1-3 stories) 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 -0.3 -0.4 -0.5 -0.3 -0.4 -0.4 -0.3 -0.4 -0.5 -0.6 -0.6 -0.8 -0.4 NA NA -0.7 -0.3 NA Minimum Score, Sumw 1.6 1.2 0.8 0.5 0.5 0.3 0.3 0.3 0.3 0.3 0.3 0.2 0.3 0.3 0.3 0.2 0.3 0.3 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.3 </th <th></th> <th></th> <th></th> <th></th> <th>-</th> <th></th>					-													
Soil Type E (1-3 stories) 0.0 -0.1 -0.3 -0.4 -0.5 -0.2 -0.4 -0.5 -0.3 -0.4 -0.4 -0.5 -0.3 -0.4 -0.4 -0.5 -0.3 -0.4 -0.5 -0.3 -0.4 -0.5 -0.3 -0.4 -0.5 -0.6		1.5	1.9	2.3				1.9	NA	1.9	2.1	NA	2.1	2.4	2.1			12
Soil Type E (> 3 stories) -0.5 -0.8 -1.2 -0.7 -0.7 NA -0.7 -0.6 -0.6 -0.6 -0.6 -0.7 -0.3 NA Minimum Score, Sum 1.6 1.2 0.8 0.5 0.5 0.3 0.3 0.3 0.3 0.2 0.3 0.3 0.2 0.3 0.2 1.4 FINAL LEVEL 1 SCORE, SL1 ≥ Smin: 1.2 Moderate Collapse Potential Correct Collapse Potential OTHER HAZARDS Are There Hazards That Trigger A Detailed Structural Evaluation Required? Cortext For Correct DOGAMI Cortext Forson: Cortext Forson: Correct Forson: Cortext Forson: Exterior: Correct Score, Siz Correct Score,			0.0	0.0				00	0.0	0.0	0.0	07	0.0	07				
Minimum Score, SMM 1.6 1.2 0.8 0.5 0.9 0.5 0.3 0.3 0.3 0.3 0.2 0.3 0.2 1.4 FINAL LEVEL 1 SCORE, SL1 > SMIN: 1.2 Moderate Collapse Potential EXTENT OF REVIEW Exterior: Partial All Sides Aerial Are There Hazards That Trigger A Detailed Structural Evaluation Required? Detailed Structural Structural Structural Structural Structured Structural Structural Struc	Coil Type E (1.2 stories)	0.3													0.8	0.8	0.6	0.9
FINAL LEVEL 1 SCORE, SL1 ≥ SMIN: 1.2 Moderate Collapse Potential EXTENT OF REVIEW Exterior: Partial All Sides Aerial Interior: None Visible Entered Drawings Reviewed: Yes No Soil Type Source: DOGAMI Pounding potential (unless SL2> Detailed Structural Evaluation? Geologic Hazards Source: DOGAMI Falling hazards from taller adjacent building Yes, other hazards present LEVEL 2 SCREENING PERFORMED? Significant damage/deterioration to the structural system Yes, nonstructural hazards identified that should be evaluated Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM INF = Unreinforced masonry infill MH = Manufactured Housing FD = Flexible diaphragm	51 ()	0.3 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	0.8 -0.4	0.8 -0.4	0.6 -0.3	0.9 -0.5
EXTENT OF REVIEW OTHER HAZARDS ACTION REQUIRED Exterior: Partial All Sides Aerial Interior: None Visible Entered Drawings Reviewed: Yes No Detailed Structural Evaluation? Pounding potential (unless SL2 > cut-off, if known) Pounding potential (u	Soil Type E (> 3 stories)	0.3 0.0 -0.5	-0.1 -0.8	-0.3 -1.2	-0.4 -0.7	-0.5 -0.7	0.0 NA	-0.4 -0.7	-0.5 -0.6	-0.2 -0.6	-0.2 -0.8	-0.4 -0.4	-0.5 NA	-0.3 -0.5	0.8 -0.4 -0.6	0.8 -0.4 -0.7	0.6 -0.3 -0.3	0.9 -0.5 NA
Exterior: Partial All Sides Aerial Interior: None Visible Entered Drawings Reviewed: Yes No Soil Type Source: DOGAMI Pounding potential (unless SL2 > out-off, if known) Yes, score less than cut-off Geologic Hazards Source: DOGAMI Falling hazards from taller adjacent building Yes, other hazards present LEVEL 2 SCREENING PERFORMED? Solin Type S Solin Type S Solin Significant damage/deterioration to the structural system No Ves, Final Level 2 Score, SL2 No No No No Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know Legend: MR = Moment-resisting frame RC = Reinforced concrete URM INF = Unreinforced masonry infill MH = Manufactured Housing FD = Flexible diaphragm	Soil Type E (> 3 stories) Minimum Score, S _{MIN}	0.3 0.0 -0.5 1.6	-0.1 -0.8 1.2	-0.3 -1.2 0.8	-0.4 -0.7 0.5	-0.5 -0.7 0.5	0.0 NA 0.9	-0.4 -0.7	-0.5 -0.6	-0.2 -0.6	-0.2 -0.8	-0.4 -0.4	-0.5 NA	-0.3 -0.5	0.8 -0.4 -0.6	0.8 -0.4 -0.7	0.6 -0.3 -0.3	0.9 -0.5 NA
Interior: None Visible Entered Drawings Reviewed: Yes No Soil Type Source: DOGAMI Pounding potential (unless SL2 > cut-off, if known) Yes, score less than cut-off Geologic Hazards Source: DOGAMI Falling hazards from taller adjacent building Yes, other hazards present Contact Person: Geologic hazards or Soil Type F Geologic hazards or Soil Type F Significant damage/deterioration to the structural system Detailed Nonstructural hazards identified that should be evaluated Yes, Final Level 2 Score, SL2 Xo No Detailed evaluation is not necessary Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know Legend: MR = Moment-resisting frame RC = Reinforced concrete URM INF = Unreinforced masonry infill MH = Manufactured Housing FD = Flexible diaphragm	Soil Type E (> 3 stories) Minimum Score, S _{MIN} FINAL LEVEL 1 SCORE, S _{L1} ≥	0.3 0.0 -0.5 1.6	-0.1 -0.8 1.2	-0.3 -1.2 0.8 te Coll	-0.4 -0.7 0.5 lapse F	-0.5 -0.7 0.5 Potentia	0.0 NA 0.9	-0.4 -0.7 0.5	-0.5 -0.6	-0.2 -0.6 0.3	-0.2 -0.8 0.3	-0.4 -0.4 0.3	-0.5 NA 0.3	-0.3 -0.5	0.8 -0.4 -0.6	0.8 -0.4 -0.7	0.6 -0.3 -0.3	0.9 -0.5 NA
Drawings Reviewed: Yes No Soil Type Source: DOGAMI Pounding potential (unless SL2 > cut-off, if known) Yes, score less than cut-off Geologic Hazards Source: DOGAMI Falling hazards from taller adjacent building Yes, other hazards present LEVEL 2 SCREENING PERFORMED? Geologic hazards or Soil Type F Significant damage/deterioration to the structural system Detailed Nonstructural hazards identified that should be evaluated No No No Detailed valuation is not necessary DNK Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know Legend: MR = Moment-resisting frame RC = Reinforced concrete URM INF = Unreinforced masonry infill MH = Manufactured Housing FD = Flexible diaphragm	Soil Type E (> 3 stories) Minimum Score, S _{MIN} FINAL LEVEL 1 SCORE, S _{L1} ≥ EXTENT OF REVIEW	0.3 0.0 -0.5 1.6 Smin: 1.2 M	-0.1 -0.8 1.2 Aodera	-0.3 -1.2 0.8 te Coll	-0.4 -0.7 0.5 lapse F	-0.5 -0.7 0.5 Potentia	0.0 NA 0.9 al	-0.4 -0.7 0.5	-0.5 -0.6 0.5	-0.2 -0.6 0.3	-0.2 -0.8 0.3	-0.4 -0.4 0.3	-0.5 NA 0.3	-0.3 -0.5 0.2	0.8 -0.4 -0.6 0.3	0.8 -0.4 -0.7	0.6 -0.3 -0.3	0.9 -0.5 NA
Soil Type Source: DOGAMI Geologic Hazards Source: DOGAMI Contact Person: Falling hazards from taller adjacent building Geologic hazards or Soil Type F Geologic hazards or Soil Type F Image: Source: Significant damage/deterioration to the structural system Image: Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM INF = Unreinforced masonry infill MH = Manufactured Housing FD = Flexible diaphragm	Soil Type E (> 3 stories) Minimum Score, SMIN FINAL LEVEL 1 SCORE, SL1 ≥ EXTENT OF REVIEW Exterior: □ Partial	0.3 0.0 -0.5 1.6 Smin: 1.2 M	-0.1 -0.8 1.2 Modera	-0.3 -1.2 0.8 te Coll	-0.4 -0.7 0.5 lapse F OTHEI Are Ther	-0.5 -0.7 0.5 Potentia R HAZ	0.0 NA 0.9 al ARDS Is That 1	-0.4 -0.7 0.5	-0.5 -0.6 0.5	-0.2 -0.6 0.3	-0.2 -0.8 0.3	-0.4 -0.4 0.3	-0.5 NA 0.3	-0.3 -0.5 0.2	0.8 -0.4 -0.6 0.3	0.8 -0.4 -0.7	0.6 -0.3 -0.3	0.9 -0.5 NA
Geologic Hazards Source: DOGAMI Ites, other mazards present Contact Person: Ites, other mazards present LEVEL 2 SCREENING PERFORMED? Geologic hazards or Soil Type F Significant damage/deterioration to the structural system Yes, Final Level 2 Score, SL2 Yes, Final Level 2 Score, SL2 No Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM INF = Unreinforced masonry infill MH = Manufactured Housing FD = Flexible diaphragm	Soil Type E (> 3 stories) Minimum Score, SMIN FINAL LEVEL 1 SCORE, SL1 ≥ EXTENT OF REVIEW Exterior: □ Partial Interior: □ None	0.3 0.0 -0.5 1.6 Smm: 1.2 M ⊠ All Side □ Visible	-0.1 -0.8 1.2 Modera	-0.3 -1.2 0.8 te Coll	-0.4 -0.7 0.5 lapse F OTHEI Are Ther Detailed	-0.5 -0.7 0.5 Potentia R HAZ e Hazard Structur	0.0 NA 0.9 al ARDS Is That 1 al Evalu	-0.4 -0.7 0.5	-0.5 -0.6 0.5	-0.2 -0.6 0.3 ACTI Detaile	-0.2 -0.8 0.3	-0.4 -0.4 0.3 EQUIF tural Eva	-0.5 NA 0.3 RED aluation A buildir	-0.3 -0.5 0.2 Require	0.8 -0.4 -0.6 0.3	0.8 -0.4 -0.7 0.3	0.6 -0.3 -0.3	0.9 -0.5 NA
Contact Person:	Soil Type E (> 3 stories) Minimum Score, SMIN FINAL LEVEL 1 SCORE, SL1 ≥ EXTENT OF REVIEW Exterior: □ Partial Interior: □ None Drawings Reviewed: ☑ Yes	0.3 0.0 -0.5 1.6 Smin: 1.2 M X All Side Visible No	-0.1 -0.8 1.2 Modera	-0.3 -1.2 0.8 te Coll	-0.4 -0.7 0.5 Iapse F OTHEF Are Ther Detailed	-0.5 -0.7 0.5 Potentia R HAZ e Hazard Structur ding pote	0.0 NA 0.9 ARDS Is That 1 al Evalu	-0.4 -0.7 0.5	-0.5 -0.6 0.5	-0.2 -0.6 0.3 ACTI Detaile	-0.2 -0.8 0.3	-0.4 -0.4 0.3 EQUIF tural Eva	-0.5 NA 0.3 RED aluation A buildir n cut-off	-0.3 -0.5 0.2 Require	0.8 -0.4 -0.6 0.3	0.8 -0.4 -0.7 0.3	0.6 -0.3 -0.3	0.9 -0.5 NA
LEVEL 2 SCREENING PERFORMED? Geologic hazards or Soil Type F Yes, Final Level 2 Score, SL2 No Nonstructural hazards? Yes Yes Yes Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM INF = Unreinforced masonry infill MH = Manufactured Housing FD = Flexible diaphragm	Soil Type E (> 3 stories) Minimum Score, SMIN FINAL LEVEL 1 SCORE, SL1≥ EXTENT OF REVIEW Exterior: □ Partial Interior: □ None Drawings Reviewed: ⊠ Yes Soil Type Source: □OGAN	0.3 0.0 -0.5 1.6 Smn: 1.2 № MI Side Visible No	-0.1 -0.8 1.2 Modera	-0.3 -1.2 0.8 te Coll	-0.4 -0.7 0.5 lapse F OTHEF Are Ther Detailed Detailed Cut-o	-0.5 -0.7 0.5 Potentia R HAZ e Hazard Structur ding pote ff, if knov	0.0 NA 0.9 ARDS Is That 1 al Evalu ential (un vn)	-0.4 -0.7 0.5	-0.5 -0.6 0.5	-0.2 -0.6 0.3 ACTI Detaile U Ye U Ye	-0.2 -0.8 0.3 ION R ed Struc es, unkno es, score es, other	-0.4 -0.4 0.3 EQUIF tural Eva	-0.5 NA 0.3 RED aluation A buildir n cut-off	-0.3 -0.5 0.2 Require	0.8 -0.4 -0.6 0.3	0.8 -0.4 -0.7 0.3	0.6 -0.3 -0.3	0.9 -0.5 NA
Level 2 Screening Performed Perform	Soil Type E (> 3 stories) Minimum Score, SMIN FINAL LEVEL 1 SCORE, SL1≥ EXTENT OF REVIEW Exterior: □ Partial Interior: □ None Drawings Reviewed: X Yes Soil Type Source: DOGAN Geologic Hazards Source: DO	0.3 0.0 -0.5 1.6 Smn: 1.2 № MI Side Visible No	-0.1 -0.8 1.2 Modera	-0.3 -1.2 0.8 te Coll	-0.4 -0.7 0.5 lapse F OTHEI Are Ther Detailed Poun cut-o	-0.5 -0.7 0.5 Potentia R HAZ e Hazard Structur ding pote ff, if knov g hazard	0.0 NA 0.9 ARDS Is That 1 al Evalu ential (un vn)	-0.4 -0.7 0.5	-0.5 -0.6 0.5	-0.2 -0.6 0.3 Detaile Detaile Petaile Ye Ye X No	-0.2 -0.8 0.3	-0.4 -0.4 0.3 EQUIF tural Eva wwn FEM less that hazards	-0.5 NA 0.3 RED aluation A buildir n cut-off present	-0.3 -0.5 0.2 Require	0.8 -0.4 -0.6 0.3	0.8 -0.4 -0.7 0.3	0.6 -0.3 -0.3 0.2	0.9 -0.5 NA
□ Yes, Final Level 2 Score, SL2	Soil Type E (> 3 stories) Minimum Score, SMIN FINAL LEVEL 1 SCORE, SL1 ≥ EXTENT OF REVIEW Exterior: □ Partial Interior: □ None Drawings Reviewed: X Yes Soil Type Source: DOGAN Geologic Hazards Source: DO Contact Person: DO	0.3 0.0 -0.5 1.6 Smin: 1.2 M □ Visible □ Visible □ No ΛI GAMI	-0.1 -0.8 1.2 Modera s 🗌 Ae X En	-0.3 -1.2 0.8 te Coll rial tered	-0.4 -0.7 0.5 CTHEI Are Ther Detailed Poun cut-o Fallir build	-0.5 -0.7 0.5 Potentia R HAZ e Hazard Structur ding pote ff, if knov g hazard ng ogic hazard	0.0 NA 0.9 al ARDS Is That 1 al Evalu ential (un vn) Is from ta ards or S	-0.4 -0.7 0.5	-0.5 -0.6 0.5	-0.2 -0.6 0.3 ACTI Detaile Yee Yee X Noc Detaile	-0.2 -0.8 0.3	-0.4 -0.4 0.3 EQUIF tural Eva less that hazards	-0.5 NA 0.3 RED aluation A buildir n cut-off present	-0.3 -0.5 0.2 Require ng type of	0.8 -0.4 -0.6 0.3	0.8 -0.4 -0.7 0.3	0.6 -0.3 -0.3 0.2	0.9 -0.5 NA
Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM INF = Unreinforced masonry infill MH = Manufactured Housing FD = Flexible diaphragm	Soil Type E (> 3 stories) Minimum Score, SMIN FINAL LEVEL 1 SCORE, SL1 ≥ EXTENT OF REVIEW Exterior: □ Partial Interior: □ None Drawings Reviewed: X Yes Soil Type Source: DOGAN Geologic Hazards Source: DO Contact Person: LEVEL 2 SCREENING PE	0.3 0.0 -0.5 1.6 Smin: 1.2 M □ Visible □ Visible □ No ΛI GAMI	-0.1 -0.8 1.2 Modera s Aea X En	-0.3 -1.2 0.8 te Coll rial tered	-0.4 -0.7 0.5 Iapse F OTHEF Are Ther Detailed Detailed Fallir build Geol Signi	-0.5 -0.7 0.5 Potentia R HAZ e Hazard Structur ding pote ff, if knov g hazard ng ogic hazard ficant dai	0.0 NA 0.9 al ARDS Is That 1 al Evalu ential (un vn) Is from ta ards or S mage/de	-0.4 -0.7 0.5	-0.5 -0.6 0.5	-0.2 -0.6 0.3 ACTI Detaile Ye Ye X No Detaile Ye	-0.2 -0.8 0.3 ION R ed Struc es, score es, other ed Nons es, nonst	-0.4 -0.4 0.3 EQUIF tural Eva wwn FEM less that hazards tructural h	-0.5 NA 0.3 RED aluation A buildir n cut-off present I Evalua nazards	-0.3 -0.5 0.2 Require ng type of tion Rec	0.8 -0.4 -0.6 0.3 ed? r other bu ommence that sho	0.8 -0.4 -0.7 0.3 uilding	0.6 -0.3 -0.3 0.2 eck one) raluated	0.9 -0.5 NA 1.4
Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM INF = Unreinforced masonry infill MH = Manufactured Housing FD = Flexible diaphragm	Soil Type E (> 3 stories) Minimum Score, SMIN FINAL LEVEL 1 SCORE, SL1 ≥ EXTENT OF REVIEW Exterior: □ Partial Interior: □ None Drawings Reviewed: X Yes Soil Type Source: DOGAN Geologic Hazards Source: DO Contact Person: LEVEL 2 SCREENING PE Yes, Final Level 2 Score, SL2	0.3 0.0 -0.5 1.6 Smin: 1.2 M Smin: 1.2 M Usible No MI GAMI	-0.1 -0.8 1.2 Modera s Aea X En ED?	-0.3 -1.2 0.8 te Coll rial tered	-0.4 -0.7 0.5 Iapse F OTHEF Are Ther Detailed Detailed Fallir build Geol Signi	-0.5 -0.7 0.5 Potentia R HAZ e Hazard Structur ding pote ff, if knov g hazard ng ogic hazard ficant dai	0.0 NA 0.9 al ARDS Is That 1 al Evalu ential (un vn) Is from ta ards or S mage/de	-0.4 -0.7 0.5	-0.5 -0.6 0.5	-0.2 -0.6 0.3 ACTI Detaile Pre X No Detaile Y e X No de	-0.2 -0.8 0.3 ION R ed Struc es, unkno es, score es, other ed Nons es, nonstru tailed ev	-0.4 -0.4 0.3 EQUIF tural Eva wwn FEM less that hazards tructural h uctural h uctural h aluation	-0.5 NA 0.3 RED aluation A buildir n cut-off present I Evalua nazards e azards e is not ne	-0.3 -0.5 0.2 Require ng type of tion Rec identified xist that i cessary	0.8 -0.4 -0.6 0.3 d? r other bu ommeno that sho may requ	0.8 -0.4 -0.7 0.3 uilding	0.6 -0.3 -0.3 0.2 eck one) raluated	0.9 -0.5 NA 1.4
	Soil Type E (> 3 stories) Minimum Score, SMIN FINAL LEVEL 1 SCORE, SL1 ≥ EXTENT OF REVIEW Exterior: □ Partial Interior: □ None Drawings Reviewed: X Yes Soil Type Source: DOGAN Geologic Hazards Source: DO Contact Person: LEVEL 2 SCREENING PE Yes, Final Level 2 Score, SL2	0.3 0.0 -0.5 1.6 Smin: 1.2 M Smin: 1.2 M Usible No MI GAMI	-0.1 -0.8 1.2 Modera s Aea X En ED?	-0.3 -1.2 0.8 te Coll rial tered	-0.4 -0.7 0.5 Iapse F OTHEF Are Ther Detailed Detailed Fallir build Geol Signi	-0.5 -0.7 0.5 Potentia R HAZ e Hazard Structur ding pote ff, if knov g hazard ng ogic hazard ficant dai	0.0 NA 0.9 al ARDS Is That 1 al Evalu ential (un vn) Is from ta ards or S mage/de	-0.4 -0.7 0.5	-0.5 -0.6 0.5	-0.2 -0.6 0.3 ACTI Detaile Pre X No Detaile Y e X No de	-0.2 -0.8 0.3 ION R ed Struc es, unkno es, score es, other ed Nons es, nonstru tailed ev	-0.4 -0.4 0.3 EQUIF tural Eva wwn FEM less that hazards tructural h uctural h uctural h aluation	-0.5 NA 0.3 RED aluation A buildir n cut-off present I Evalua nazards e azards e is not ne	-0.3 -0.5 0.2 Require ng type of tion Rec identified xist that i cessary	0.8 -0.4 -0.6 0.3 d? r other bu ommeno that sho may requ	0.8 -0.4 -0.7 0.3 uilding	0.6 -0.3 -0.3 0.2 eck one) raluated	0.9 -0.5 NA 1.4
BK = Diaren liaine Div = Diaren Wall Di = Dir un Div E Diaren motor Di = Diare diophroam	Soil Type E (> 3 stories) Minimum Score, SMIN FINAL LEVEL 1 SCORE, $S_{L1} \ge$ EXTENT OF REVIEW Exterior: Partial Interior: None Drawings Reviewed: Yes Soil Type Source: DOGAN Geologic Hazards Source: DO Contact Person: LEVEL 2 SCREENING PE Yes, Final Level 2 Score, S_{L2} Nonstructural hazards?	0.3 0.0 -0.5 1.6 Smn: 1.2 M Smn: 1.2 M Smn: 1.2 M Visible No M GAMI SRFORMI	-0.1 -0.8 1.2 Modera s □ Ae ⊠ En ED? - □ ►	-0.3 -1.2 0.8 te Coll rial tered	-0.4 -0.7 0.5 Iapse F OTHEF Are Ther Detailed Poun cut-o Fallir build Geol Signi the s	-0.5 -0.7 0.5 Potentia R HAZ e Hazard Structur ding pote ff, if knov g hazard ng ogic haze tructural	0.0 NA 0.9 Al ARDS ARDS Is That 1 al Evalu ential (un vn) Is from ta ards or S mage/de system	-0.4 -0.7 0.5	-0.5 -0.6 0.5 > cent F n to	-0.2 -0.6 0.3 ACTI Detaile Ye Ye X No Detaile Ye X No detaile	-0.2 -0.8 0.3 CON R ed Struc es, unkno es, score es, other ed Nons es, nonstru- tailed ev o, no non	-0.4 -0.4 0.3 EQUIF tural Eva own FEM less than hazards tructural hazards tructural hazards tructural hazards	-0.5 NA 0.3 RED aluation A buildir n cut-off present I Evalua hazards e azards e is not ne al hazard	-0.3 -0.5 0.2 Require ng type of tion Rec identified xist that is cessary is identified	0.8 -0.4 -0.6 0.3 or other bu ommence that sho may requ ed	0.8 -0.4 -0.7 0.3 uilding uid be ev ire mitiga	0.6 -0.3 -0.3 0.2 eck one) raluated	0.9 -0.5 NA 1.4

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FEMA BUILDING TYPE			ASIC W1A	SCOR W2	RE, MO	DIFIE S2 (BR)		ND FIN S4 (RC	S5 (URM			RE, S		PC2	RM1 (FD)	RM2 (RD)	URM	MH
FEMA BUILDING TYPE Basic Score	Do Not Know	8/ W1	W1A	W2	S1 (MRF)	S2 (BR)	RS, AI S3 (LM)	ND FIN S4 (RC SW)	S5 (URM INF)	EVEL ' C1 (MRF)	1 SCO C2 (SW)	RE, S C3 (URM INF)	PC1 (TU)	PC2	(FD)	(RD)		
	Do Not Know	B			S1	S2	RS, Al S3	ND FIN S4 (RC	S5 (URM	EVEL [/]	1 SCO ^{C2}	RE, S	L1 PC1				URM 1.2 -0.8	МН 2.2 NA
Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1	Do Not Know	B /W1 4.1 -1.3 -0.8	W1A 3.7 -1.3 -0.8	W2 -1.3 -0.8	S1 (MRF) 2.3 -1.1 -0.7	S2 (BR) 2.2 -1.0 -0.6	RS, AI S3 (LM) 2.9 -1.2 -0.8	ND FIN (RC SW) 2.2 -1.0 -0.6	S5 (URM INF) 2.0 -0.9 -0.6	C1 (MRF) 1.7 -1.0 -0.6	1 SCO (SW) 2.1 -1.1 -0.6	RE, S C3 (URM INF) 1.4 -0.8 -0.5	PC1 (TU) 1.8 -1.0 -0.6	PC2 1.5 -0.9 -0.6	(FD) 1.8 -1.0 -0.6	(RD) 1.8 -1.0 -0.6	1.2 -0.8 -0.5	2.2 NA NA
Basic Score Severe Vertical Irregularity, V_{L1} Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1}	Do Not Know	B / W1 -1.3 -0.8 -1.3	W1A 3.7 -1.3 -0.8 -1.2	W2 -1.3 -0.8 -1.1	S1 (MRF) 2.3 -1.1 -0.7 -0.9	S2 (BR) 2.2 -1.0 -0.6 -0.8	RS, AI S3 (LM) 2.9 -1.2 -0.8 -1.0	ND FIN S4 (RC SW) 2.2 -1.0 -0.6 -0.8	NAL LE (URM INF) 2.0 -0.9 -0.6 -0.7	C1 (MRF) 1.7 -1.0 -0.6 -0.7	1 SCO C2 (SW) 2.1 -1.1 -0.6 -0.9	RE, S C3 (URM INF) 1.4 -0.8 -0.5 -0.6	PC1 (TU) 1.8 -1.0 -0.6 -0.8	PC2 1.5 -0.9 -0.6 -0.7	(FD) 1.8 -1.0 -0.6 -0.7	(RD) 1.8 -1.0 -0.6 -0.7	1.2 -0.8 -0.5 -0.5	2.2 NA NA NA
Basic Score Severe Vertical Irregularity, V _{L1} Moderate Vertical Irregularity, V _{L1} Plan Irregularity, P _{L1} Pre-Code	Do Not Know	B / W1 -1.3 -0.8 -1.3 -0.8	W1A 3.7 -1.3 -0.8 -1.2 -0.9	W2 -1.3 -0.8 -1.1 -0.9	S1 (MRF) 2.3 -1.1 -0.7 -0.9 -0.5	S2 (BR) -1.0 -0.6 -0.8 -0.5	RS, AI S3 (LM) 2.9 -1.2 -0.8 -1.0 -0.7	ND FIN S4 (RC SW) 2.2 -1.0 -0.6 -0.8 -0.6	S5 (URM INF) 2.0 -0.9 -0.6 -0.7 -0.2	C1 (MRF) 1.7 -1.0 -0.6 -0.7 -0.4	C2 (SW) 2.1 -1.1 -0.6 -0.9 -0.7	RE, S C3 (URM INF) 1.4 -0.8 -0.5 -0.6 -0.1	L1 PC1 (TU) 1.8 -1.0 -0.6 -0.8 -0.4	PC2 1.5 -0.9 -0.6 -0.7 -0.3	(FD) 1.8 -1.0 -0.6 -0.7 -0.5	(RD) 1.8 -1.0 -0.6 -0.7 -0.5	1.2 -0.8 -0.5 -0.5 -0.1	2.2 NA NA NA -0.3
Basic Score Severe Vertical Irregularity, V _{L1} Moderate Vertical Irregularity, V _{L1} Plan Irregularity, P _{L1} Pre-Code Post-Benchmark	Do Not Know	B / W1 -1.3 -0.8 -1.3 -0.8 1.5	W1A 3.7 -1.3 -0.8 -1.2 -0.9 1.9	W2 -1.3 -0.8 -1.1 -0.9 2.3	S1 (MRF) 2.3 -1.1 -0.7 -0.9 -0.5 1.4	S2 (BR) -1.0 -0.6 -0.8 -0.5 1.4	RS, AI S3 (LM) 2.9 -1.2 -0.8 -1.0 -0.7 1.0	S4 (RC SW) -1.0 -0.6 -0.8 -0.6 1.9	S5 (URM INF) 2.0 -0.9 -0.6 -0.7 -0.2 NA	C1 (MRF) 1.7 -1.0 -0.6 -0.7 -0.4 1.9	1 SCO (SW) 2.1 -1.1 -0.6 -0.9 -0.7 2.1	RE, S (URM INF) 1.4 -0.8 -0.5 -0.6 -0.1 NA	L1 PC1 (TU) 1.8 -1.0 -0.6 -0.8 -0.4 2.1	PC2 1.5 -0.9 -0.6 -0.7 -0.3 2.4	(FD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1	(RD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1	1.2 -0.8 -0.5 -0.5 -0.1 NA	2.2 NA NA -0.3 1.2
Basic Score Severe Vertical Irregularity, V _{L1} Moderate Vertical Irregularity, V _{L1} Plan Irregularity, P _{L1} Pre-Code	Do Not Know	B / W1 -1.3 -0.8 -1.3 -0.8	W1A 3.7 -1.3 -0.8 -1.2 -0.9	W2 -1.3 -0.8 -1.1 -0.9	S1 (MRF) 2.3 -1.1 -0.7 -0.9 -0.5	S2 (BR) -1.0 -0.6 -0.8 -0.5	RS, AI S3 (LM) 2.9 -1.2 -0.8 -1.0 -0.7	ND FIN S4 (RC SW) 2.2 -1.0 -0.6 -0.8 -0.6	S5 (URM INF) 2.0 -0.9 -0.6 -0.7 -0.2	C1 (MRF) 1.7 -1.0 -0.6 -0.7 -0.4	C2 (SW) 2.1 -1.1 -0.6 -0.9 -0.7	RE, S C3 (URM INF) 1.4 -0.8 -0.5 -0.6 -0.1	L1 PC1 (TU) 1.8 -1.0 -0.6 -0.8 -0.4	PC2 1.5 -0.9 -0.6 -0.7 -0.3	(FD) 1.8 -1.0 -0.6 -0.7 -0.5	(RD) 1.8 -1.0 -0.6 -0.7 -0.5	1.2 -0.8 -0.5 -0.5 -0.1	2.2 NA NA NA -0.3
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	Do Not Know	B / W1 -1.3 -0.8 -1.3 -0.8 1.5 0.3	W1A 3.7 -1.3 -0.8 -1.2 -0.9 1.9 0.6	W2 -1.3 -0.8 -1.1 -0.9 2.3 0.9	S1 (MRF) 2.3 -1.1 -0.7 -0.9 -0.5 1.4 0.6	S2 (BR) -1.0 -0.6 -0.8 -0.5 1.4 0.9	RS, AI s3 (LM) 2.9 -1.2 -0.8 -1.0 -0.7 1.0 0.3	ND FIN (RC SW) 2.2 -1.0 -0.6 -0.8 -0.6 1.9 0.9	S5 (URM INF) 2.0 -0.9 -0.6 -0.7 -0.2 NA 0.9 -0.2	C1 (MRF) 1.7 -1.0 -0.6 -0.7 -0.4 1.9 0.6	1 SCO (SW) 2.1 -1.1 -0.6 -0.9 -0.7 2.1 0.8	RE, S (URM INF) 1.4 -0.8 -0.5 -0.6 -0.1 NA 0.7	L1 PC1 (TU) 1.8 -1.0 -0.6 -0.8 -0.4 2.1 0.9	PC2 1.5 -0.9 -0.6 -0.7 -0.3 2.4 0.7	(FD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8	(RD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8	1.2 -0.8 -0.5 -0.5 -0.1 NA 0.6	2.2 NA NA -0.3 1.2 0.9
Basic ScoreSevere Vertical Irregularity, V_{L1} Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-CodePost-BenchmarkSoil Type A or BSoil Type E (1-3 stories)	Do Not Know	B / W1 -1.3 -0.8 -1.3 -0.8 1.5 0.3 0.0	W1A 3.7 -1.3 -0.8 -1.2 -0.9 1.9 0.6 -0.1	W2 -1.3 -0.8 -1.1 -0.9 2.3 0.9 -0.3	S1 (MRF) 2.3 -1.1 -0.7 -0.9 -0.5 1.4 0.6 -0.4	S2 (BR) -1.0 -0.6 -0.8 -0.5 1.4 0.9 -0.5	RS, AI S3 (LM) 2.9 -1.2 -0.8 -1.0 -0.7 1.0 0.3 0.0	ND FIN S4 (RC SW) 2.2 -1.0 -0.6 -0.8 -0.6 1.9 0.9 -0.4	S5 (URM INF) 2.0 -0.9 -0.6 -0.7 -0.2 NA 0.9 -0.5 -0.5	C1 (MRF) 1.7 -1.0 -0.6 -0.7 -0.4 1.9 0.6 -0.2	1 SCO (SW) 2.1 -1.1 -0.6 -0.9 -0.7 2.1 0.8 -0.2	RE, S (URM INF) 1.4 -0.8 -0.5 -0.6 -0.1 NA 0.7 -0.4	L1 PC1 (TU) 1.8 -1.0 -0.6 -0.8 -0.4 2.1 0.9 -0.5	PC2 1.5 -0.9 -0.6 -0.7 -0.3 2.4 0.7 -0.3	(FD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4	(RD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4	1.2 -0.8 -0.5 -0.5 -0.1 NA 0.6 -0.3	2.2 NA NA -0.3 1.2 0.9 -0.5
Basic ScoreSevere Vertical Irregularity, V_{L1} Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-CodePost-BenchmarkSoil Type A or BSoil Type E (1-3 stories)Soil Type E (> 3 stories)	Do Not Know	B / 4.1 -1.3 -0.8 -1.3 -0.8 1.5 0.3 0.0 -0.5 1.6	W1A -1.3 -0.8 -1.2 -0.9 1.9 0.6 -0.1 -0.8 1.2	W2 -1.3 -0.8 -1.1 -0.9 2.3 0.9 -0.3 -1.2 0.8	S1 (MRF) 2.3 -1.1 -0.7 -0.9 -0.5 1.4 0.6 -0.4 -0.4 -0.7 0.5	S2 (BR) -1.0 -0.6 -0.8 -0.5 1.4 0.9 -0.5 -0.7 0.5	RS, AI 3 (LM) 2.9 -1.2 -0.8 -1.0 -0.7 1.0 0.3 0.0 NA	S4 (RC SW) -1.0 -0.6 -0.8 -0.6 1.9 0.9 -0.4	S5 (URM INF) 2.0 -0.9 -0.6 -0.7 -0.2 NA 0.9 -0.5 -0.6	C1 (MRF) 1.7 -1.0 -0.6 -0.7 -0.4 1.9 0.6 -0.2 -0.6	1 SCO (SW) 2.1 -1.1 -0.6 -0.9 -0.7 2.1 0.8 -0.2 -0.8	RE, S (URM INF) 1.4 -0.8 -0.5 -0.6 -0.1 NA 0.7 -0.4 -0.4	L1 PC1 (TU) 1.8 -1.0 -0.6 -0.8 -0.4 2.1 0.9 -0.5 NA	PC2 1.5 -0.9 -0.6 -0.7 -0.3 2.4 0.7 -0.3 -0.5	(FD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.6	(RD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.7	1.2 -0.8 -0.5 -0.5 -0.1 NA 0.6 -0.3 -0.3	2.2 NA NA -0.3 1.2 0.9 -0.5 NA
Basic ScoreSevere Vertical Irregularity, V_{L1} Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-CodePost-BenchmarkSoil Type A or BSoil Type E (1-3 stories)Soil Type E (> 3 stories)Minimum Score, S_{MIN} FINAL LEVEL 1 SCORE, S_{L2}	Do Not Know	B / 4.1 -1.3 -0.8 -1.3 -0.8 1.5 0.3 0.0 -0.5 1.6	W1A -1.3 -0.8 -1.2 -0.9 1.9 0.6 -0.1 -0.8 1.2	W2 -1.3 -0.8 -1.1 -0.9 2.3 0.9 -0.3 -1.2 0.8 Ulapse	S1 (MRF) 2.3 -1.1 -0.7 -0.9 -0.5 1.4 0.6 -0.4 -0.4 -0.7 0.5 ≥ Potent	S2 (BR) -1.0 -0.6 -0.8 -0.5 1.4 0.9 -0.5 -0.7 0.5 tial	RS, AI S3 (LM) 2.9 -1.2 -0.8 -1.0 -0.7 1.0 0.3 0.0 NA 0.9	S4 (RC SW) 2.2 -1.0 -0.6 -0.8 -0.6 1.9 0.9 -0.4 -0.7 0.5	S5 (URM INF) 2.0 -0.9 -0.6 -0.7 -0.2 NA 0.9 -0.5 -0.6	CT (MRF) 1.7 -1.0 -0.6 -0.7 -0.4 1.9 0.6 -0.2 -0.6 0.3	C2 (SW) 2.1 -1.1 -0.6 -0.9 -0.7 2.1 0.8 -0.2 -0.8 0.3	RE, S (URM INF) 1.4 -0.8 -0.5 -0.6 -0.1 NA 0.7 -0.4 -0.4 0.3	L1 PC1 (TU) 1.8 -1.0 -0.6 -0.8 -0.4 2.1 0.9 -0.5 NA 0.3	PC2 1.5 -0.9 -0.6 -0.7 -0.3 2.4 0.7 -0.3 -0.5	(FD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.6	(RD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.7	1.2 -0.8 -0.5 -0.5 -0.1 NA 0.6 -0.3 -0.3	2.2 NA NA -0.3 1.2 0.9 -0.5 NA
Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, SMIN FINAL LEVEL 1 SCORE, SL EXTENT OF REVIEW	Do Not Know	B / W1 4.1 -1.3 -0.8 -1.3 -0.8 1.5 0.3 0.0 -0.5 1.6 3.2 Lo	W1A 3.7 -1.3 -0.8 -1.2 -0.9 1.9 0.6 -0.1 -0.8 1.2 D D D D D D D D	W2 -1.3 -0.8 -1.1 -0.9 2.3 0.9 -0.3 -1.2 0.8 Ullapse	S1 (MRF) 2.3 -1.1 -0.7 -0.9 -0.5 1.4 0.6 -0.4 -0.7 0.5 POten OTHEF	S2 (BR) 2.2 -1.0 -0.6 -0.8 -0.5 1.4 0.9 -0.5 -0.7 0.5 tial	RS, AI S3 (LM) 2.9 -1.2 -0.8 -1.0 -0.7 1.0 0.3 0.0 NA 0.9 CARDS	ND FIN S4 (RC SW) 2.2 -1.0 -0.6 -0.6 1.9 0.9 -0.4 -0.7 0.5	S5 (URM INF) 2.0 -0.9 -0.6 -0.7 -0.2 NA 0.9 -0.5 -0.6 0.5	C1 (MRF) 1.7 -1.0 -0.6 -0.7 -0.4 1.9 0.6 -0.2 -0.6 0.3 ACT	1 SCO C2 (SW) 2.1 -1.1 -0.6 -0.9 -0.7 2.1 0.8 -0.2 -0.8 0.3 ION R	RE, S (URM INF) 1.4 -0.8 -0.5 -0.6 -0.1 NA 0.7 -0.4 -0.4 0.3 EQUII	L1 PC1 (TU) -0.6 -0.8 -0.4 2.1 0.9 -0.5 NA 0.3 RED	PC2 1.5 -0.9 -0.6 -0.7 -0.3 2.4 0.7 -0.3 -0.5 0.2	(FD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.6 0.3	(RD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.7	1.2 -0.8 -0.5 -0.5 -0.1 NA 0.6 -0.3 -0.3	2.2 NA NA -0.3 1.2 0.9 -0.5 NA
Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, SMIN FINAL LEVEL 1 SCORE, SL: EXTENT OF REVIEW Exterior: □ Partia	Do Not Know 1 ≥ Smin: 3 al [X] All	B / W1 4.1 -1.3 -0.8 -1.3 -0.8 1.5 0.3 0.0 -0.5 1.6 3.2 Loc Sides	W1A 3.7 -1.3 -0.8 -1.2 -0.9 1.9 0.6 -0.1 -0.8 1.2 DW CO	W2 -1.3 -0.8 -1.1 -0.9 2.3 0.9 -0.3 -1.2 0.8 Illapse	S1 (MRF) 2.3 -1.1 -0.7 -0.9 -0.5 1.4 0.6 -0.4 -0.4 -0.7 0.5 e Poten OTHEF Are There	S2 (BR) 2.2 -1.0 -0.6 -0.8 -0.5 1.4 0.9 -0.5 -0.7 0.5 tial R HAZ e Hazard	RS, AI S3 (LM) 2.9 -1.2 -0.8 -1.0 -0.7 1.0 0.3 0.0 NA 0.9 CARDS ds That	ND FIN S4 (RC SW) 2.2 -1.0 -0.6 -0.8 -0.6 1.9 0.9 -0.4 -0.7 0.5 Frigger 4	S5 (URM INF) 2.0 -0.9 -0.6 -0.7 -0.2 NA 0.9 -0.5 -0.6 0.5	C1 (MRF) 1.7 -1.0 -0.6 -0.7 -0.4 1.9 0.6 -0.2 -0.6 0.3 ACT Detaile	1 SCO C2 (SW) 2.1 -1.1 -0.6 -0.9 -0.7 2.1 0.8 -0.2 -0.8 0.3 ION R ed Struc	RE, S (UR INF) 1.4 -0.8 -0.5 -0.6 -0.1 NA 0.7 -0.4 -0.4 0.3 EQUII tural Ev	PC1 (TU) 1.8 -1.0 -0.6 -0.8 -0.4 2.1 0.9 -0.5 NA 0.3	PC2 1.5 -0.9 -0.6 -0.7 -0.3 2.4 0.7 -0.3 -0.5 0.2 n Require	(FD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.6 0.3 ed?	(RD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.7 0.3	1.2 -0.8 -0.5 -0.5 -0.1 NA 0.6 -0.3 -0.3	2.2 NA NA -0.3 1.2 0.9 -0.5 NA
Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, SMIN FINAL LEVEL 1 SCORE, SL1 EXTENT OF REVIEW Exterior: □ Partia Interior: □ None Drawings Reviewed: 🖾 Yes	Do Not Know 1 ≥ SMIN: 3 al X All 9 □ Vis □ No	B / W1 4.1 -1.3 -0.8 -1.3 -0.8 1.5 0.3 0.0 -0.5 1.6 3.2 Loc Sides	W1A 3.7 -1.3 -0.8 -1.2 -0.9 1.9 0.6 -0.1 -0.8 1.2 D D D D D D D D	W2 -1.3 -0.8 -1.1 -0.9 2.3 0.9 -0.3 -1.2 0.8 Mlapse	S1 (MRF) 2.3 -1.1 -0.7 -0.9 -0.5 1.4 0.6 -0.4 -0.4 -0.7 0.5 POten OTHEF Are There Detailed	S2 (BR) 2.2 -1.0 -0.6 -0.8 -0.5 1.4 0.9 -0.5 -0.7 0.5 tial R HAZ e Hazard Structur	RS, AI S3 (LM) 2.9 -1.2 -0.8 -1.0 -0.7 1.0 0.3 0.0 NA 0.9 CARDS ds That ral Evalue	ND FIN S4 (RC SW) 2.2 -1.0 -0.6 -0.8 -0.6 1.9 0.9 -0.4 -0.7 0.5 Frigger A ation?	S5 URM INF) 2.0 -0.9 -0.6 -0.7 -0.2 NA 0.9 -0.5 -0.6 0.5 -0.5	C1 (MRF) 1.7 -1.0 -0.6 -0.7 -0.4 1.9 0.6 -0.2 -0.6 0.3 ACT Detaile □ Ye	1 SCO C2 (SW) 2.1 -1.1 -0.6 -0.9 -0.7 2.1 0.8 -0.2 -0.8 0.3 ION R ed Struc es, unkno	RE, S C3 (URM INF) 1.4 -0.8 -0.5 -0.6 -0.1 NA 0.7 -0.4 -0.4 0.3 EQUII tural Evo pown FEM	PC1 (TU) 1.8 -1.0 -0.6 -0.8 -0.4 2.1 0.9 -0.5 NA 0.3	PC2 1.5 -0.9 -0.6 -0.7 -0.3 2.4 0.7 -0.3 -0.5 0.2 n Require	(FD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.6 0.3 ed?	(RD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.7 0.3	1.2 -0.8 -0.5 -0.5 -0.1 NA 0.6 -0.3 -0.3	2.2 NA NA -0.3 1.2 0.9 -0.5 NA
Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, SMM FINAL LEVEL 1 SCORE, SL EXTENT OF REVIEW Exterior: □ Partia Interior: □ None Drawings Reviewed: ∑ Yes Soil Type Source:	Do Not Know 1 ≥ SMIN: 3 al X All 9 □ Vis □ No AMI	B / W1 4.1 -1.3 -0.8 -1.3 -0.8 1.5 0.3 0.0 -0.5 1.6 3.2 Loc Sides	W1A 3.7 -1.3 -0.8 -1.2 -0.9 1.9 0.6 -0.1 -0.8 1.2 DW CO	W2 -1.3 -0.8 -1.1 -0.9 2.3 0.9 -0.3 -1.2 0.8 Mlapse	S1 (MRF) 2.3 -1.1 -0.7 -0.9 -0.5 1.4 0.6 -0.4 0.5 Poten OTHEF Are There Detailed □ Poun	S2 (BR) 2.2 -1.0 -0.6 -0.8 -0.5 1.4 0.9 -0.5 -0.7 0.5 tial R HAZ e Hazard Structur	RS, AI S3 (LM) 2.9 -1.2 -0.8 -1.0 -0.7 1.0 0.3 0.0 NA 0.9 CARDS ds That ral Evalu ential (ur	ND FIN S4 (RC SW) 2.2 -1.0 -0.6 -0.8 -0.6 1.9 0.9 -0.4 -0.7 0.5 Frigger A ation?	S5 URM INF) 2.0 -0.9 -0.6 -0.7 -0.2 NA 0.9 -0.5 -0.6 0.5 -0.5	C1 (MRF) 1.7 -1.0 -0.6 -0.7 -0.4 1.9 0.6 -0.2 -0.6 0.3	1 SCO C2 (SW) 2.1 -1.1 -0.6 -0.9 -0.7 2.1 0.8 -0.2 -0.8 0.3 ION R ed Struc	RE, S C3 (URM INF) 1.4 -0.8 -0.5 -0.6 -0.1 NA 0.7 -0.4 -0.4 -0.4 0.3 EQUII tural Ev own FEM less tha	PC1 (TU) 1.8 -1.0 -0.6 -0.8 -0.4 2.1 0.9 -0.5 NA 0.3	PC2 1.5 -0.9 -0.6 -0.7 -0.3 2.4 0.7 -0.3 -0.5 0.2 n Require ing type of	(FD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.6 0.3 ed?	(RD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.7 0.3	1.2 -0.8 -0.5 -0.5 -0.1 NA 0.6 -0.3 -0.3	2.2 NA NA -0.3 1.2 0.9 -0.5 NA
Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, SMMN FINAL LEVEL 1 SCORE, SLE EXTENT OF REVIEW Exterior: □ Partia Interior: □ None Drawings Reviewed: \[X] Yes Soil Type Source: DOG. Geologic Hazards Source: □	Do Not Know 1 ≥ SMIN: 3 al X All 9 □ Vis □ No	B / W1 4.1 -1.3 -0.8 -1.3 -0.8 1.5 0.3 0.0 -0.5 1.6 3.2 Loc Sides	W1A 3.7 -1.3 -0.8 -1.2 -0.9 1.9 0.6 -0.1 -0.8 1.2 DW CO	W2 -1.3 -0.8 -1.1 -0.9 2.3 0.9 -0.3 -1.2 0.8 Ulapse ial ered	S1 (MRF) 2.3 -1.1 -0.7 -0.9 -0.5 1.4 0.6 -0.4 -0.5 Potent OTHEF Are There Detailed □ Poun cut-0 □ Fallin	S2 (BR) 2.2 -1.0 -0.6 -0.8 -0.5 1.4 0.9 -0.5 -0.7 0.5 tial R HAZ e Hazard Structur ding pot ff, if know g hazard	RS, AI S3 (LM) 2.9 -1.2 -0.8 -1.0 -0.7 1.0 0.3 0.0 NA 0.9 CARDS ds That ral Evalu ential (ur	S4 (RC SW) 2.2 -1.0 -0.6 -0.8 -0.6 1.9 0.9 -0.4 -0.7 0.5 0.5	S5 (URM INF) 2.0 -0.9 -0.6 -0.7 -0.2 NA 0.9 -0.5 -0.6 0.5 -0.5	C1 (MRF) 1.7 -1.0 -0.6 -0.7 -0.4 1.9 0.6 -0.2 -0.6 0.3	C2 (SW) 2.1 -1.1 -0.6 -0.9 -0.7 2.1 0.8 -0.2 -0.8 0.3	RE, S C3 (URM INF) 1.4 -0.8 -0.5 -0.6 -0.1 NA 0.7 -0.4 -0.4 -0.4 0.3 EQUII tural Ev own FEM less tha	PC1 (TU) 1.8 -1.0 -0.6 -0.8 -0.4 2.1 0.9 -0.5 NA 0.3	PC2 1.5 -0.9 -0.6 -0.7 -0.3 2.4 0.7 -0.3 -0.5 0.2 n Require ing type of	(FD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.6 0.3 ed?	(RD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.7 0.3	1.2 -0.8 -0.5 -0.5 -0.1 NA 0.6 -0.3 -0.3	2.2 NA NA -0.3 1.2 0.9 -0.5 NA
Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, SMM FINAL LEVEL 1 SCORE, SL EXTENT OF REVIEW Exterior: □ Partia Interior: □ None Drawings Reviewed: ∑ Yes Soil Type Source:	Do Not Know 1 ≥ SMIN: 3 al X All 9 □ Vis □ No AMI	B / W1 4.1 -1.3 -0.8 -1.3 -0.8 1.5 0.3 0.0 -0.5 1.6 3.2 Loc Sides	W1A 3.7 -1.3 -0.8 -1.2 -0.9 1.9 0.6 -0.1 -0.8 1.2 DW CO	W2 -1.3 -0.8 -1.1 -0.9 2.3 0.9 -0.3 -1.2 0.8 Illapse ial ered	S1 (MRF) 2.3 -1.1 -0.7 -0.9 -0.5 1.4 0.6 -0.4 -0.7 0.5 Potenni Potenni Detailed □ Pounn cut-o □ Fallin buildi	S2 (BR) 2.2 -1.0 -0.6 -0.8 -0.5 1.4 0.9 -0.5 -0.7 0.5 tial R HAZ R HAZ R HAZ Structur ding pot ff, if know g hazard	RS, AI S3 (LM) 2.9 -1.2 -0.8 -1.0 -0.7 1.0 0.3 0.0 NA 0.9 CARDS ds That ral Evalu ential (ur wn) ds from ta	S4 (RC SW) 2.2 -1.0 -0.6 -0.8 -0.6 1.9 0.9 -0.4 -0.7 0.5 Trigger A ration? allers SL2	S5 (URM INF) 2.0 -0.9 -0.6 -0.7 -0.2 NA 0.9 -0.5 -0.6 0.5 -0.5 -0.6 -0.5 -0.6 -0.5 -0.6 -0.5 -0.6 0.5	C1 (MRF) 1.7 -1.0 -0.6 -0.7 -0.4 1.9 0.6 -0.2 -0.6 0.3 0.3 0.3 0.3 0.3	I SCO C2 (SW) 2.1 -1.1 -0.6 -0.9 -0.7 2.1 0.8 -0.2 -0.8 0.3	RE, S (UR INF) 1.4 -0.8 -0.5 -0.6 -0.1 NA 0.7 -0.4 -0.4 0.3 EQUII tural Ev pwn FEN less tha hazards	PC1 (TU) 1.8 -1.0 -0.6 -0.8 -0.4 2.1 0.9 -0.5 NA 0.3	PC2 1.5 -0.9 -0.6 -0.7 -0.3 2.4 0.7 -0.3 -0.5 0.2 n Require ing type of	(FD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.6 0.3 ed? r other bu	(RD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.7 0.3 uilding	1.2 -0.8 -0.5 -0.5 -0.1 NA 0.6 -0.3 -0.3 0.2	2.2 NA NA -0.3 1.2 0.9 -0.5 NA 1.4
Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, SMMN FINAL LEVEL 1 SCORE, SLE EXTENT OF REVIEW Exterior: □ Partia Interior: □ None Drawings Reviewed: \[X] Yes Soil Type Source: DOG. Geologic Hazards Source: □	Do Not Know 1 ≥ Smin: 3 al X All 9 □ Vis □ No AMI DOGAMI	B / W1 -1.3 -0.8 -1.3 -0.8 -1.3 -0.8 -1.5 0.3 0.0 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0	W1A 3.7 -1.3 -0.8 -1.2 -0.9 0.6 -0.1 -0.8 1.2 Dow Coo Image: Second Cool Image: Second Coo <	W2 -1.3 -0.8 -1.1 -0.9 2.3 0.9 -0.3 -1.2 0.8 Hapse	S1 (MRF) 2.3 -1.1 -0.7 -0.9 -0.5 1.4 0.6 -0.4 -0.7 0.5 Potenn OTHEF Are Therr Detailed Poun cut-or Fallin buildi Geold	S2 (BR) 2.2 -1.0 -0.6 -0.8 -0.5 1.4 0.9 -0.5 -0.7 0.5 tial R HAZ R HAZ R HAZ R HAZ R HAZ R HAZ R HAZ R HAZ	RS, AI S3 (LM) 2.9 -1.2 -0.8 -1.0 -0.7 1.0 0.3 0.0 NA 0.9 CARDS ds That ral Evalu ential (ur wn) ds from ta ards or S	S4 (RC SW) 2.2 -1.0 -0.6 -0.8 -0.6 1.9 0.9 -0.4 -0.7 0.5 0.5	S5 (URM INF) 2.0 -0.9 -0.6 -0.7 -0.2 NA 0.9 -0.5 -0.6 0.5 -0.5 -0.6 0.5	C1 (MRF) 1.7 -1.0 -0.6 -0.7 -0.4 1.9 0.6 -0.2 -0.6 0.3 0.3 0.3 0.3 0.3 0.5 0.2 -0.6 0.3 0.3 0.5 0.2 -0.6 0.3	I SCO C2 (SW) 2.1 -1.1 -0.6 -0.9 -0.7 2.1 0.8 -0.2 -0.8 0.3	RE, S (UR INF) 1.4 -0.8 -0.5 -0.6 -0.1 NA 0.7 -0.4 -0.4 0.3 EQUII tural Ev pwn FEN less that hazards tructural	PC1 (TU) 1.8 -1.0 -0.6 -0.8 -0.4 2.1 0.9 -0.5 NA 0.3	PC2 1.5 -0.9 -0.6 -0.7 -0.3 2.4 0.7 -0.3 -0.5 0.2 0.2 n Require ing type of t ation Rec	(FD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.6 0.3 ed? r other but commend that sho	(RD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.7 0.3 uilding ded? (<i>ch</i> uild be ev	1.2 -0.8 -0.5 -0.5 -0.1 NA 0.6 -0.3 -0.3 -0.3 0.2	2.2 NA NA -0.3 1.2 0.9 -0.5 NA 1.4
Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, SMMN FINAL LEVEL 1 SCORE, SL1 EXTENT OF REVIEW Exterior: □ Partia Interior: □ None Drawings Reviewed: \[X] Yes Soil Type Source: DOG. Geologic Hazards Source: □ Contact Person: □	Do Not Know 1 ≥ SMIN: 3 al X All S □ Vis No AMI DOGAMI PERFOF	B / W1 -1.3 -0.8 -1.3 -0.8 -1.3 -0.8 -1.5 0.3 0.0 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0	W1A 3.7 -1.3 -0.8 -1.2 -0.9 1.9 0.6 -0.1 -0.8 1.2 D?	W2 -1.3 -0.8 -1.1 -0.9 2.3 0.9 -0.3 -1.2 0.8 Ilapse ial ered	S1 (MRF) 2.3 -1.1 -0.7 -0.9 -0.5 1.4 0.6 -0.4 -0.7 0.5 Poten OTHEF Are There Detailed □	S2 (BR) 2.2 -1.0 -0.6 -0.8 -0.5 1.4 0.9 -0.5 -0.7 0.5 tial R HAZ R HAZ R HAZ R HAZ R HAZ R HAZ R HAZ R HAZ	RS, AI S3 (LM) 2.9 -1.2 -0.8 -1.0 -0.7 1.0 0.3 0.0 NA 0.9 CARDS ds That T ral Evalu ential (ur wn) ds from ta ards or S image/de	S4 (RC SW) 2.2 -1.0 -0.6 -0.8 -0.6 1.9 0.9 -0.4 -0.7 0.5 0.5	S5 (URM INF) 2.0 -0.9 -0.6 -0.7 -0.2 NA 0.9 -0.5 -0.6 0.5 -0.5 -0.6 0.5	C1 (MRF) 1.7 -1.0 -0.6 -0.7 -0.4 1.9 0.6 -0.2 -0.6 0.3	I SCO C2 (SW) 2.1 -1.1 -0.6 -0.9 -0.7 2.1 0.8 -0.2 -0.8 0.3 ION R ed Struct es, score es, other o ed Nons es, nonstru	RE, S C3 (URM INF) 1.4 -0.8 -0.5 -0.6 -0.1 NA 0.7 -0.4 -0.3 EQUII tural Evo wm FEN less that hazards tructural	PC1 (TU) 1.8 -1.0 -0.6 -0.8 -0.4 2.1 0.9 -0.5 NA 0.3	PC2 1.5 -0.9 -0.6 -0.7 -0.3 2.4 0.7 -0.3 -0.5 0.2 A construction Required ation Required table that the second seco	(FD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.6 0.3 ed? r other but commend that sho	(RD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.7 0.3 uilding ded? (<i>ch</i> uild be ev	1.2 -0.8 -0.5 -0.5 -0.1 NA 0.6 -0.3 -0.3 -0.3 0.2	2.2 NA NA -0.3 1.2 0.9 -0.5 NA 1.4
Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, SMIN FINAL LEVEL 1 SCORE, SL1 EXTENT OF REVIEW Exterior: □ Partia Interior: □ None Drawings Reviewed: X Yes Soil Type Source: DOG. Geologic Hazards Source: □ Contact Person: □ LEVEL 2 SCREENING □ Yes, Final Level 2 Score, SL1 □	Do Not Know 1 ≥ Smin: 3 al X All al X All Constant AMI DOGAMI PERFOF 2	B / W1 -1.3 -0.8 -1.3 -0.8 -1.3 -0.8 -1.5 0.3 0.0 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0	W1A 3.7 -1.3 -0.8 -1.2 -0.9 1.9 0.6 -0.1 -0.8 1.2 ow Co Co Co Co Co Co Co Co Co Co	W2 -1.3 -0.8 -1.1 -0.9 2.3 0.9 -0.3 -1.2 0.8 Illapse ial ered	S1 (MRF) 2.3 -1.1 -0.7 -0.9 -0.5 1.4 0.6 -0.4 -0.7 0.5 Poten OTHEF Are There Detailed □	S2 (BR) 2.2 -1.0 -0.6 -0.8 -0.5 -0.7 0.5 tial R HAZ B Hazard Structur ding pot ff, if know g hazard ng ogic hazard ficant da	RS, AI S3 (LM) 2.9 -1.2 -0.8 -1.0 -0.7 1.0 0.3 0.0 NA 0.9 CARDS ds That T ral Evalu ential (ur wn) ds from ta ards or S image/de	S4 (RC SW) 2.2 -1.0 -0.6 -0.8 -0.6 1.9 0.9 -0.4 -0.7 0.5 0.5	S5 (URM INF) 2.0 -0.9 -0.6 -0.7 -0.2 NA 0.9 -0.5 -0.6 0.5 -0.5 -0.6 0.5	C1 (MRF) 1.7 -1.0 -0.6 -0.7 -0.4 1.9 0.6 -0.2 -0.6 0.3 C1 Detaile Ye Ye X No Detaile Ye X No de	I SCO C2 (SW) 2.1 -1.1 -0.6 -0.9 -0.7 2.1 0.8 -0.2 -0.8 0.3 ION R ed Structors, score es, other or ed Nons es, nonstructailed ev	RE, S C3 (URM INF) 1.4 -0.8 -0.5 -0.6 -0.1 NA 0.7 -0.4 -0.3 EQUII tural Evon bown FEN less that hazards tructural uctural haluation	PC1 (TU) 1.8 -1.0 -0.6 -0.8 -0.4 2.1 0.9 -0.5 NA 0.3	PC2 1.5 -0.9 -0.6 -0.7 -0.3 2.4 0.7 -0.3 -0.5 0.2 n Require ing type of t ation Rec exist that ecessary	(FD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.6 0.3 ed? r other but commented that sho may requ	(RD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.7 0.3 uilding ded? (<i>ch</i> uild be ev uire mitig	1.2 -0.8 -0.5 -0.5 -0.1 NA 0.6 -0.3 -0.3 -0.3 0.2	2.2 NA NA -0.3 1.2 0.9 -0.5 NA 1.4
Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type E (>3 stories) Minimum Score, SMIN FINAL LEVEL 1 SCORE, SL1 EXTENT OF REVIEW Exterior: Partia Interior: None Drawings Reviewed: Yes Soil Type Source: DOG, Geologic Hazards Source: [] Contact Person:	Do Not Know 1 ≥ Smin: 3 al X All al Vis No AMI DOGAMI PERFOF 2 Yes	B/ W1 -1.3 -0.8 -1.3 -0.8 -1.3 -0.8 -1.3 -0.8 -1.3 -0.8 -1.5 -0.3 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.5 -1.6 -0.8 -1.3 -0.8 -1.3 -0.8 -1.3 -0.8 -1.3 -0.8 -1.3 -0.8 -1.3 -0.8 -1.3 -0.8 -1.3 -0.8 -1.3 -0.8 -1.3 -0.8 -1.3 -0.8 -1.3 -0.8 -1.3 -0.8 -1.3 -0.8 -1.3 -0.8 -1.3 -0.8 -1.5 -0.5 -1.5 -0.5 -1.6 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5	W1A 3.7 -1.3 -0.8 -1.2 -0.9 1.9 0.6 -0.1 -0.8 1.2 pow Coo □ Aer ⊠ Ent D? ⊠ N ⊠ N	W2 -1.3 -0.8 -1.1 -0.9 2.3 0.9 -0.3 -1.2 0.8 -1.2 0.8 -1.1 -0.9 2.3 0.9 -0.3 -1.2 0.8 -1.1 -0.9 -0.3 -1.2 0.8 -1.1 -0.9 -0.3 -1.2 0.8 -1.1 -0.9 -0.3 -1.2 0.8 -1.1 -0.9 -0.3 -1.2 0.8 -1.2 0.8 -1.2 0.9 -0.3 -1.2 0.8 -1.1 -0.9 -0.3 -1.2 0.8 -1.2 0.9 -0.3 -1.2 0.8 -1.2	S1 (MRF) 2.3 -1.1 -0.7 -0.9 -0.5 1.4 0.6 -0.4 -0.5 Poten OTHEF Are There Detailed □ Poun cut-o □ Fallin Geold □ Geold □ Signin the st	S2 (BR) 2.2 -1.0 -0.6 -0.8 -0.5 1.4 0.5 -0.7 0.5 -0.7 0.5 tial R HAZ Structur ding pot ff, if know g hazard ficant da tructural	RS, AI S3 (LM) 2.9 -1.2 -0.8 -1.0 0.7 1.0 0.3 0.0 NA 0.9 CARDS ds That Trai Evalue ential (ur wn) ds from ta ards or S mage/de system	ND FIN S4 (RC SW) 2.2 -1.0 -0.6 -0.8 -0.6 1.9 0.9 -0.4 -0.7 0.5 Frigger A lation? aller adja foil Type terioratic	SE URM INF) 2.0 -0.9 -0.6 -0.7 -0.2 NA 0.9 -0.5 -0.6 0.5 -0.6 0.5 -0.6 rent -0.5 no.6 -0.5 -0.6 0.5	C1 (MRF) 1.7 -1.0 -0.6 -0.7 -0.4 1.9 0.6 -0.2 -0.6 0.3 C1 Detaile Ye Ye Xo Detaile Ye Xo Detaile Ye Xo detaile Ye Xo	I SCO C2 (SW) 2.1 -1.1 -0.6 -0.9 -0.7 2.1 0.8 -0.2 -0.8 0.3	RE, S (URM INF) 1.4 -0.8 -0.5 -0.6 -0.1 NA 0.7 -0.4 -0.4 0.3 EQUII tural Ev bown FEN less that hazards tructural hazards tructural hazards	PC1 (TU) 1.8 -1.0 -0.6 -0.8 -0.4 2.1 0.9 -0.5 NA 0.3	PC2 1.5 -0.9 -0.6 -0.7 -0.3 2.4 0.7 -0.3 -0.5 0.2 0.2 n Require ing type of t ation Rec identifiec exist that ecessary ds identifie	(FD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.6 0.3 ed? r other but commend i that sho may requ ed	(RD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.7 0.3 uilding ded? (ch uild be ev uire mitig	1.2 -0.8 -0.5 -0.5 -0.1 NA 0.6 -0.3 -0.3 -0.3 0.2	2.2 NA NA -0.3 1.2 0.9 -0.5 NA 1.4
Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type E (> 3 stories) Soil Type E (> 3 stories) Minimum Score, SMIN FINAL LEVEL 1 SCORE, SL1 EXTENT OF REVIEW Exterior: □ Partia Interior: □ None Drawings Reviewed: Yes Soil Type Source: □OOG, Geologic Hazards Source: □ Contact Person: □ LEVEL 2 SCREENING □ Yes, Final Level 2 Score, SL1 Nonstructural hazards? □ Where information □	Do Not Know 1 ≥ Smin: 3 al X All al Vis No AMI DOGAMI PERFOF 2 Yes	B/ W1 4.1 -1.3 -0.8 -1.3 -0.8 -1.3 -0.8 -1.5 0.3 0.0 -0.5 -1.6 -0.5 -1.6 Sides ible RMEI	W1A 3.7 -1.3 -0.8 -1.2 -0.9 1.9 0.6 -0.1 -0.8 1.2 Dow Coo □ Aer ☑ ► Ent □ ■	W2 -1.3 -0.8 -1.1 -0.9 2.3 0.9 -0.3 -1.2 0.8 Hapse ial ered ial ered do lo lo lo	S1 (MRF) 2.3 -1.1 -0.7 -0.9 -0.5 1.4 0.6 -0.4 -0.5 Poten OTHEF Are There Detailed □ Poun cut-o □ Fallin Geold □ Geold □ Signin the st	S2 (BR) 2.2 -1.0 -0.6 -0.8 -0.5 1.4 0.9 -0.5 1.6 etasse Base etasse etasse Structur ding pot ff, if knov ogic hazard ogic hazard ogic hazard ficant da tructural	RS, AI S3 (LM) 2.9 -1.2 -0.8 -1.0 -0.7 1.0 0.3 0.0 NA 0.9 CARDS ds That ral Evalu ential (ur wn) ds from ta ards or S image/de system the follow	ND FIN S4 (RC SW) 2.2 -1.0 -0.6 -0.8 -0.6 1.9 0.9 -0.4 -0.7 0.5 Trigger A ation? aller adja coil Type terioratic	ST ST (URM INF) 2.0 -0.9 -0.6 -0.7 -0.2 NA 0.9 -0.5 -0.6 0.5	C1 (MRF) 1.7 -1.0 -0.6 -0.7 -0.4 1.9 0.6 -0.2 -0.6 0.3 C1 Detaile Ye Ye Xo Detaile Ye Xo Detaile Ye Xo detaile Ye Xo	1 SCO C2 (SW) 2.1 -1.1 -0.6 -0.9 -0.7 2.1 0.8 -0.2 -0.8 0.3 ION R ed Struc es, unknown ss, score es, other o ed Nons runstru tailed ev o, no non r unrelia	RE, S C3 (UR INF) 1.4 -0.8 -0.5 -0.6 -0.1 NA 0.7 -0.4 -0.3 EQUII tural Evony pwn FEN less that hazards tructural uctural haluation istructuration istructuration	PC1 (TU) 1.8 -1.0 -0.6 -0.8 -0.4 2.1 0.9 -0.5 NA 0.3	PC2 1.5 -0.9 -0.6 -0.7 -0.3 2.4 0.7 -0.3 -0.5 0.2 0.2 n Require ing type of t ation Rec identifiec exist that ecessary ds identifie	(FD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.6 0.3 ed? r other but sommend i that sho may requ ed [] to Not Kr	(RD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.7 0.3 uilding ded? (ch uild be ev uire mitig DNK 1000	1.2 -0.8 -0.5 -0.5 -0.1 NA 0.6 -0.3 -0.3 -0.3 0.2	2.2 NA NA -0.3 1.2 0.9 -0.5 NA 1.4

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FEMA BUILDING TYPE Do Not Know Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1	B / W1 -1.3 -0.8 -1.3	W1A 3.7 -1.3 -0.8 -1.2	W2 3.2 -1.3 -0.8 -1.1	S1 (MRF) 2.3 -1.1 -0.7 -0.9	S2 (BR) 2.2 -1.0 -0.6 -0.8	RS, AN S3 (LM) 2.9 -1.2 -0.8 -1.0	ND FIN (RC SW) 2.2 -1.0 -0.6 -0.8	IAL LE (URM INF) 2.0 -0.9 -0.6 -0.7	C1 (MRF) 1.7 -1.0 -0.6 -0.7	C2 (SW) 2.1 -1.1 -0.6 -0.9	RE, S C3 (URM INF) 1.4 -0.8 -0.5 -0.6	L1 PC1 (TU) 1.8 -1.0 -0.6 -0.8	PC2 1.5 -0.9 -0.6 -0.7	(FD) 1.8 -1.0 -0.6 -0.7	(RD) 1.8 -1.0 -0.6 -0.7	1.2 -0.8 -0.5 -0.5	2.2 NA NA NA
FEMA BUILDING TYPE Do Not Know Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1	B /W1 4.1 -1.3 -0.8	W1A 3.7 -1.3 -0.8 -1.2 -0.9	W2 -1.3 -0.8 -1.1 -0.9	S1 (MRF) 2.3 -1.1 -0.7	S2 (BR) 2.2 -1.0 -0.6	RS, AN (LM) 2.9 -1.2 -0.8	ND FIN S4 (RC SW) 2.2 -1.0 -0.6	IAL LE (URM INF) 2.0 -0.9 -0.6	C1 (MRF) 1.7 -1.0 -0.6	C2 (SW) 2.1 -1.1 -0.6	RE, S (URM INF) 1.4 -0.8 -0.5	L1 PC1 (TU) 1.8 -1.0 -0.6	PC2 1.5 -0.9 -0.6	(FD) -1.0 -0.6	(RD) 1.8 -1.0 -0.6	1.2 -0.8 -0.5	2.2 NA NA
FEMA BUILDING TYPE Do Not Know Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Plan Irregularity, PL1 Pre-Code	W1 4.1 -1.3 -0.8 -1.3 -0.8	W1A 3.7 -1.3 -0.8 -1.2	W2 3.2 -1.3 -0.8 -1.1	S1 (MRF) 2.3 -1.1 -0.7 -0.9 -0.5	S2 (BR) -1.0 -0.6 -0.8 -0.5	RS, AN S3 (LM) 2.9 -1.2 -0.8 -1.0 -0.7	ND FIN S4 (RC SW) 2.2 -1.0 -0.6 -0.8 -0.6	IAL LE S5 (URM INF) 2.0 -0.9 -0.6 -0.7 -0.2	C1 (MRF) 1.7 -1.0 -0.6 -0.7 -0.4	1 SCO C2 (SW) 2.1 -1.1 -0.6 -0.9 -0.7	RE, S C3 (URM INF) 1.4 -0.8 -0.5 -0.6 -0.1	L1 PC1 (TU) 1.8 -1.0 -0.6 -0.8 -0.4	PC2 1.5 -0.9 -0.6 -0.7 -0.3	(FD) 1.8 -1.0 -0.6 -0.7 -0.5	(RD) 1.8 -1.0 -0.6 -0.7 -0.5	1.2 -0.8 -0.5 -0.5 -0.1	2.2 NA NA NA -0.3
FEMA BUILDING TYPE Do Not Know Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Pre-Code	4.1 -1.3 -0.8 -1.3 -0.8 1.5	W1A -1.3 -0.8 -1.2 -0.9 1.9	W2 -1.3 -0.8 -1.1 -0.9 2.3	S1 (MRF) 2.3 -1.1 -0.7 -0.9 -0.5 1.4	S2 (BR) -1.0 -0.6 -0.8 -0.5 1.4	RS, AN S3 (LM) 2.9 -1.2 -0.8 -1.0 -0.7 1.0	S4 (RC SW) 2.2 -1.0 -0.6 -0.8 -0.6 1.9	IAL LE (URM INF) 2.0 -0.9 -0.6 -0.7 -0.2 NA	C1 (MRF) 1.7 -1.0 -0.6 -0.7 -0.4 1.9	C2 (SW) 2.1 -1.1 -0.6 -0.9 -0.7 2.1	RE, S (URM INF) 1.4 -0.8 -0.5 -0.6 -0.1 NA	L1 PC1 (TU) 1.8 -1.0 -0.6 -0.8 -0.4 2.1	PC2 1.5 -0.9 -0.6 -0.7 -0.3 2.4	(FD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1	(RD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1	1.2 -0.8 -0.5 -0.5 -0.1 NA	2.2 NA NA -0.3 1.2
FEMA BUILDING TYPE Do Not Know Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B	B /W1 -1.3 -0.8 -1.3 -0.8 1.5 0.3	W1A 3.7 -1.3 -0.8 -1.2 -0.9 1.9 0.6	W2 -1.3 -0.8 -1.1 -0.9 2.3 0.9	S1 (MRF) 2.3 -1.1 -0.7 -0.9 -0.5 1.4 0.6	S2 (BR) -1.0 -0.6 -0.8 -0.5 1.4 0.9	RS, AN (LM) 2.9 -1.2 -0.8 -1.0 -0.7 1.0 0.3	ND FIN (RC SW) 2.2 -1.0 -0.6 -0.8 -0.6 1.9 0.9	IAL LE S5 (URM INF) 2.0 -0.9 -0.6 -0.7 -0.2 NA 0.9	C1 (MRF) 1.7 -1.0 -0.6 -0.7 -0.4 1.9 0.6	C2 (SW) 2.1 -1.1 -0.6 -0.9 -0.7 2.1 0.8	RE, S (URM INF) 1.4 -0.8 -0.5 -0.6 -0.1 NA 0.7	L1 PC1 (TU) 1.8 -1.0 -0.6 -0.8 -0.4 2.1 0.9	PC2 1.5 -0.9 -0.6 -0.7 -0.3 2.4 0.7	(FD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8	(RD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8	1.2 -0.8 -0.5 -0.5 -0.1 NA 0.6	2.2 NA NA -0.3 1.2 0.9
FEMA BUILDING TYPE Do Not Know Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (1-3 stories)	B /W1 4.1 -1.3 -0.8 -1.3 -0.8 1.5 0.3 0.0	W1A 3.7 -1.3 -0.8 -1.2 -0.9 1.9 0.6 -0.1	W2 -1.3 -0.8 -1.1 -0.9 2.3 0.9 -0.3	S1 (MRF) 2.3 -1.1 -0.7 -0.9 -0.5 1.4 0.6 -0.4	S2 (BR) -1.0 -0.6 -0.8 -0.5 1.4 0.9 -0.5	RS, AN (LM) 2.9 -1.2 -0.8 -1.0 -0.7 1.0 0.3 0.0	ND FIN (RC SW) 2.2 -1.0 -0.6 -0.8 -0.6 1.9 0.9 -0.4	IAL LE S5 (URM INF) 2.0 -0.9 -0.6 -0.7 -0.2 NA 0.9 -0.5	C1 (MRF) 1.7 -1.0 -0.6 -0.7 -0.4 1.9 0.6 -0.2	C2 (SW) 2.1 -1.1 -0.6 -0.9 -0.7 2.1 0.8 -0.2	RE, S (URM INF) 1.4 -0.8 -0.5 -0.6 -0.1 NA 0.7 -0.4	L1 PC1 (TU) 1.8 -1.0 -0.6 -0.8 -0.4 2.1 0.9 -0.5	PC2 1.5 -0.9 -0.6 -0.7 -0.3 2.4 0.7 -0.3	(FD) -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4	(RD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4	1.2 -0.8 -0.5 -0.5 -0.1 NA 0.6 -0.3	2.2 NA NA -0.3 1.2 0.9 -0.5
FEMA BUILDING TYPEDo Not KnowBasic ScoreSevere Vertical Irregularity, V_{L1} Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-CodePost-BenchmarkSoil Type A or BSoil Type E (1-3 stories)Soil Type E (> 3 stories)	B / 4.1 -1.3 -0.8 -1.3 -0.8 1.5 0.3 0.0 -0.5 7.6	W1A -1.3 -0.8 -1.2 -0.9 1.9 0.6 -0.1 -0.8 1.2	W2 -1.3 -0.8 -1.1 -0.9 2.3 0.9 -0.3 -1.2 0.8	S1 (MRF) 2.3 -1.1 -0.7 -0.9 -0.5 1.4 0.6 -0.4 -0.7	S2 (BR) -1.0 -0.6 -0.8 -0.5 1.4 0.9 -0.5 -0.7 0.5	RS, AN 3 (LM) 2.9 -1.2 -0.8 -1.0 -0.7 1.0 0.3 0.0 NA	ND FIN S4 (RC SW) 2.2 -1.0 -0.6 -0.8 -0.6 1.9 0.9 -0.4 -0.7	JAL LE S5 (URM INF) 2.0 -0.9 -0.6 -0.7 -0.2 NA 0.9 -0.5 -0.6	C1 (MRF) 1.7 -1.0 -0.6 -0.7 -0.4 1.9 0.6 -0.2 -0.6	C2 (SW) 2.1 -1.1 -0.6 -0.9 -0.7 2.1 0.8 -0.2 -0.8	RE, S (URM INF) 1.4 -0.8 -0.5 -0.6 -0.1 NA 0.7 -0.4 -0.4	L1 PC1 (TU) 1.8 -1.0 -0.6 -0.8 -0.4 2.1 0.9 -0.5 NA	PC2 1.5 -0.9 -0.6 -0.7 -0.3 2.4 0.7 -0.3 -0.5	(FD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.6	(RD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.7	1.2 -0.8 -0.5 -0.5 -0.1 NA 0.6 -0.3 -0.3	2.2 NA NA -0.3 1.2 0.9 -0.5 NA
FEMA BUILDING TYPEDo Not KnowBasic ScoreSevere Vertical Irregularity, V_{L1} Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-CodePost-BenchmarkSoil Type A or BSoil Type E (1-3 stories)Soil Type E (> 3 stories)Minimum Score, S_{MIN} FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$:	B / 4.1 -1.3 -0.8 -1.3 -0.8 1.5 0.3 0.0 -0.5 7.6	W1A -1.3 -0.8 -1.2 -0.9 1.9 0.6 -0.1 -0.8 1.2	W2 -1.3 -0.8 -1.1 -0.9 2.3 0.9 -0.3 -1.2 0.8 collaps	S1 (MRF) 2.3 -1.1 -0.7 -0.9 -0.5 1.4 0.6 -0.4 -0.7 0.5 performance -0.5	S2 (BR) -1.0 -0.6 -0.8 -0.5 1.4 0.9 -0.5 -0.7 0.5 ntial	RS, AN S3 (LM) 2.9 -1.2 -0.8 -1.0 -0.7 1.0 0.3 0.0 NA 0.9	ND FIN S4 (RC SW) 2.2 -1.0 -0.6 -0.8 -0.6 1.9 0.9 -0.4 -0.7 0.5	JAL LE S5 (URM INF) 2.0 -0.9 -0.6 -0.7 -0.2 NA 0.9 -0.5 -0.6	C1 (MRF) 1.7 -1.0 -0.6 -0.7 -0.4 1.9 0.6 -0.2 -0.6 0.3	C2 (SW) 2.1 -1.1 -0.6 -0.9 -0.7 2.1 0.8 -0.2 -0.8 0.3	RE, S (UR INF) 1.4 -0.8 -0.5 -0.6 -0.1 NA 0.7 -0.4 -0.4 0.3	L1 PC1 (TU) 1.8 -1.0 -0.6 -0.8 -0.4 2.1 0.9 -0.5 NA 0.3	PC2 1.5 -0.9 -0.6 -0.7 -0.3 2.4 0.7 -0.3 -0.5	(FD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.6	(RD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.7	1.2 -0.8 -0.5 -0.5 -0.1 NA 0.6 -0.3 -0.3	2.2 NA NA -0.3 1.2 0.9 -0.5 NA
FEMA BUILDING TYPEDo Not KnowBasic ScoreDo Not KnowSevere Vertical Irregularity, V_{L1} Moderate Vertical Irregularity, V_{L1} Plan Irregularity, P_{L1} Pre-CodePost-BenchmarkSoil Type A or BSoil 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	B / 4.1 -1.3 -0.8 -1.3 -0.8 1.5 0.3 0.0 -0.5 1.6 1.8 F	W1A 3.7 -1.3 -0.8 -1.2 -0.9 1.9 0.6 -0.1 -0.8 1.2 1.9 0.6 1.1 1.9 0.6 1.1 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	W2 -1.3 -0.8 -1.1 -0.9 2.3 0.9 -0.3 -1.2 0.8 collaps	S1 (MRF) 2.3 -1.1 -0.7 -0.9 -0.5 1.4 0.6 -0.4 -0.7 0.5 e Pote OTHEF	S2 (BR) 2.2 -1.0 -0.6 -0.8 -0.5 1.4 0.9 -0.5 -0.7 0.5 ntial	RS, AN 33 (LM) 2.9 -1.2 -0.8 -1.0 -0.7 1.0 0.3 0.0 NA 0.9 ARDS	ND FIN S4 (RC SW) 2.2 -1.0 -0.6 -0.8 -0.6 1.9 0.9 -0.4 -0.7 0.5	IAL LE S5 (URM INF) 2.0 -0.9 -0.6 -0.7 -0.2 NA 0.9 -0.5 -0.6 0.5	C1 (MRF) 1.7 -1.0 -0.6 -0.7 -0.4 1.9 0.6 -0.2 -0.6 0.3	1 SCO C2 (SW) 2.1 -1.1 -0.6 -0.9 -0.7 2.1 0.8 -0.2 -0.8 0.3 ION R	RE, S (URM INF) 1.4 -0.8 -0.5 -0.6 -0.1 NA 0.7 -0.4 -0.4 0.3 EQUIF	L1 PC1 (TU) 1.8 -1.0 -0.6 -0.8 -0.4 2.1 0.9 -0.5 NA 0.3 RED	PC2 -0.9 -0.6 -0.7 -0.3 2.4 0.7 -0.3 -0.5 0.2	(FD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.6 0.3	(RD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.7	1.2 -0.8 -0.5 -0.5 -0.1 NA 0.6 -0.3 -0.3	2.2 NA NA -0.3 1.2 0.9 -0.5 NA
FEMA BUILDING TYPE Do Not Know Basic Score Do Not Know 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 X	B / W1 -1.3 -0.8 -1.3 -0.8 1.5 0.3 0.0 -0.5 1.6 1.8 H All Sides	W1A 3.7 -1.3 -0.8 -1.2 -0.9 1.9 0.6 -0.1 -0.8 1.2	W2 -1.3 -0.8 -1.1 -0.9 2.3 0.9 -0.3 -1.2 0.8 collaps	S1 (MRF) 2.3 -1.1 -0.7 -0.9 -0.5 1.4 0.6 -0.4 0.5 1.4 0.6 -0.4 0.5 Dependence OTHEF Are There	S2 (BR) 2.2 -1.0 -0.6 -0.8 -0.5 1.4 0.9 -0.5 -0.7 0.5 ntial R HAZ	RS, AN S3 (LM) 2.9 -1.2 -0.8 -1.0 -0.7 1.0 0.3 0.0 NA 0.9 ARDS ds That 1	ND FIN S4 (RC SW) 2.2 -1.0 -0.6 -0.8 -0.6 1.9 0.9 -0.4 -0.7 0.5 	IAL LE S5 (URM INF) 2.0 -0.9 -0.6 -0.7 -0.2 NA 0.9 -0.5 -0.6 0.5	C1 (MRF) 1.7 -1.0 -0.6 -0.7 -0.4 1.9 0.6 -0.2 -0.6 0.3 ACT Detaile	2.1 -1.1 -0.6 -0.9 -0.7 2.1 0.8 -0.2 -0.8 0.3	RE, S, (URM INF) 1.4 -0.8 -0.5 -0.6 -0.1 NA 0.7 -0.4 -0.4 0.3 EQUIF tural Ev	L1 PC1 (TU) 1.8 -1.0 -0.6 -0.8 -0.4 2.1 0.9 -0.5 NA 0.3 RED aluatior	PC2 1.5 -0.9 -0.6 -0.7 -0.3 2.4 0.7 -0.3 -0.5 0.2 Require	(FD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.6 0.3 ed?	(RD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.7 0.3	1.2 -0.8 -0.5 -0.5 -0.1 NA 0.6 -0.3 -0.3	2.2 NA NA -0.3 1.2 0.9 -0.5 NA
FEMA BUILDING TYPE Do Not Know Basic Score Do Not Know 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 X	B / W1 4.1 -1.3 -0.8 -1.3 -0.8 1.5 0.3 0.0 -0.5 1.6 1.8 H All Sides /isible	W1A 3.7 -1.3 -0.8 -1.2 -0.9 1.9 0.6 -0.1 -0.8 1.2 1.9 0.6 1.1 1.9 0.6 1.1 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	W2 -1.3 -0.8 -1.1 -0.9 2.3 0.9 -0.3 -1.2 0.8 collaps collaps	S1 (MRF) 2.3 -1.1 -0.7 -0.9 -0.5 1.4 0.6 -0.4 -0.7 0.5 Ee Potes OTHEF Are There Detailed	S2 (BR) 2.2 -1.0 -0.6 -0.8 -0.5 1.4 0.9 -0.5 -0.7 0.5 ntial R HAZ Structur	RS, AN S3 (LM) 2.9 -1.2 -0.8 -1.0 -0.7 1.0 0.3 0.0 NA 0.9 ARDS is That T al Evalu	ND FIN S4 (RC SW) 2.2 -1.0 -0.6 -0.8 -0.6 1.9 0.9 -0.4 -0.7 0.5 Trigger A ation?	IAL LE S5 (URM INF) 2.0 -0.9 -0.6 -0.7 -0.2 NA 0.9 -0.5 -0.6 0.5	C1 (MRF) 1.7 -1.0 -0.6 -0.7 -0.4 1.9 0.6 -0.2 -0.6 0.3 ACT Detaile	L SCO C2 (SW) 2.1 -1.1 -0.6 -0.9 -0.7 2.1 0.8 -0.2 -0.8 0.3 CON R ed Struc es, unkno	RE, S, (URM INF) 1.4 -0.8 -0.5 -0.6 -0.1 NA 0.7 -0.4 -0.4 0.3 EQUIF tural Ev own FEM	L1 PC1 (TU) 1.8 -1.0 -0.6 -0.8 -0.4 2.1 0.9 -0.5 NA 0.3 RED aluation IA buildi	PC2 -0.9 -0.6 -0.7 -0.3 2.4 0.7 -0.3 -0.5 0.2 Require ng type o	(FD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.6 0.3	(RD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.7 0.3	1.2 -0.8 -0.5 -0.5 -0.1 NA 0.6 -0.3 -0.3	2.2 NA NA -0.3 1.2 0.9 -0.5 NA
FEMA BUILDING TYPE Do Not Know Basic Score Do Not Know 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 M Interior: None None M Drawings Reviewed: Yes I DOGAMI	B / W1 4.1 -1.3 -0.8 -1.3 -0.8 1.5 0.3 0.0 -0.5 1.6 1.8 H All Sides /isible No	W1A 3.7 -1.3 -0.8 -1.2 -0.9 1.9 0.6 -0.1 -0.8 1.2	W2 -1.3 -0.8 -1.1 -0.9 2.3 0.9 -0.3 -1.2 0.8 collaps collaps	S1 (MRF) 2.3 -1.1 -0.7 -0.9 -0.5 1.4 0.6 -0.4 0.5 1.4 0.6 -0.4 0.5 Determine OTHEF Are There Detailed Poun cut-of	S2 (BR) 2.2 -1.0 -0.6 -0.8 -0.5 1.4 0.9 -0.5 -0.7 0.5 ntial R HAZ e Hazard Structur ding pot ff, if knov	RS, AN S3 (LM) 2.9 -1.2 -0.8 -1.0 -0.7 1.0 0.3 0.0 NA 0.9 ARDS ds That 1 ral Evalu ential (un wn)	S4 (RC SW) 2.2 -1.0 -0.6 -0.8 -0.6 1.9 0.9 -0.4 -0.7 0.5	IAL LE S5 (URM INF) 2.0 -0.9 -0.6 -0.7 -0.2 NA 0.9 -0.5 -0.6 0.5	C1 (MRF) 1.7 -1.0 -0.6 -0.7 -0.4 1.9 0.6 -0.2 -0.6 0.3 Detaile □ Ye □ Ye	I SCO C2 (SW) 2.1 -1.1 -0.6 -0.9 -0.7 2.1 0.8 -0.2 -0.8 0.3	RE, S, (URM INF) 1.4 -0.8 -0.5 -0.6 -0.1 NA 0.7 -0.4 -0.4 0.3 EQUIF tural Ev	L1 PC1 (TU) 1.8 -1.0 -0.6 -0.8 -0.4 2.1 0.9 -0.5 NA 0.3 RED aluation IA buildii n cut-off	PC2 1.5 -0.9 -0.6 -0.7 -0.3 2.4 0.7 -0.3 -0.5 0.2 A Require	(FD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.6 0.3 ed?	(RD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.7 0.3	1.2 -0.8 -0.5 -0.5 -0.1 NA 0.6 -0.3 -0.3	2.2 NA NA -0.3 1.2 0.9 -0.5 NA
FEMA BUILDING TYPE Do Not Know Basic Score Severe Vertical Irregularity, V_{L1} Moderate 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, SMIN FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$: EXTENT OF REVIEW Exterior: Interior: None Drawings Reviewed: X Yes Soil Type Source: DOGAMI Geologic Hazards Source: DOGAM	B / W1 4.1 -1.3 -0.8 -1.3 -0.8 1.5 0.3 0.0 -0.5 1.6 1.8 H All Sides /isible No	W1A 3.7 -1.3 -0.8 -1.2 -0.9 1.9 0.6 -0.1 -0.8 <u>1.2</u> High C	W2 3.2 -1.3 -0.8 -1.1 -0.9 2.3 0.9 -0.3 -1.2 0.8	S1 (MRF) 2.3 -1.1 -0.7 -0.9 -0.5 1.4 0.6 -0.4 0.6 -0.7 0.5 1.4 0.6 -0.4 0.6 -0.7 0.5 ee Pote OTHEF Are There Detailed S Poun cut-oi Fallin	S2 (BR) 2.2 -1.0 -0.6 -0.8 -0.5 1.4 0.9 -0.5 -0.7 0.5 ntial R HAZ e Hazard Structur ding pot ff, if knov g hazard	RS, AN S3 (LM) 2.9 -1.2 -0.8 -1.0 -0.7 1.0 0.3 0.0 NA 0.9 ARDS Is That T al Evalu ential (un	S4 (RC SW) 2.2 -1.0 -0.6 -0.8 -0.6 1.9 0.9 -0.4 -0.7 0.5	IAL LE S5 (URM INF) 2.0 -0.9 -0.6 -0.7 -0.2 NA 0.9 -0.5 -0.6 0.5	C1 (MRF) 1.7 -1.0 -0.6 -0.7 -0.4 1.9 0.6 -0.2 -0.6 0.3 ACT Detaile □ Ye □ Ye	I SCO C2 (SW) 2.1 -1.1 -0.6 -0.9 -0.7 2.1 0.8 -0.2 -0.8 0.3	RE, S, (URM INF) 1.4 -0.8 -0.5 -0.6 -0.1 NA 0.7 -0.4 -0.4 0.3 EQUIF tural Ev pwn FEM less tha	L1 PC1 (TU) 1.8 -1.0 -0.6 -0.8 -0.4 2.1 0.9 -0.5 NA 0.3 RED aluation IA buildii n cut-off	PC2 1.5 -0.9 -0.6 -0.7 -0.3 2.4 0.7 -0.3 -0.5 0.2 A Require	(FD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.6 0.3 ed?	(RD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.7 0.3	1.2 -0.8 -0.5 -0.5 -0.1 NA 0.6 -0.3 -0.3	2.2 NA NA -0.3 1.2 0.9 -0.5 NA
FEMA BUILDING TYPE Do Not Know Basic Score Do Not Know 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 M Interior: None None M Drawings Reviewed: Yes I DOGAMI	B / W1 4.1 -1.3 -0.8 -1.3 -0.8 1.5 0.3 0.0 -0.5 1.6 1.8 H All Sides /isible No	W1A 3.7 -1.3 -0.8 -1.2 -0.9 1.9 0.6 -0.1 -0.8 <u>1.2</u> High C	W2 -1.3 -0.8 -1.1 -0.9 2.3 0.9 -0.3 -1.2 0.8 collaps collaps	S1 (MRF) 2.3 -1.1 -0.7 -0.9 -0.5 1.4 0.6 -0.4 -0.7 0.5 e Pote OTHEF Are There Detailed Poun cut-of Fallin buildi	S2 (BR) 2.2 -1.0 -0.6 -0.8 -0.5 1.4 0.9 -0.5 -0.7 0.5 ntial R HAZ Structur ding pot ff, if know g hazard ng	RS, AN S3 (LM) 2.9 -1.2 -0.8 -1.0 -0.7 1.0 0.3 0.0 NA 0.9 ARDS is That I ral Evalu ential (un wn) is from ta	S4 (RC SW) 2.2 -1.0 -0.6 -0.8 -0.6 1.9 0.9 -0.4 -0.7 0.5	IAL LE S5 (URM INF) 2.0 -0.9 -0.6 -0.7 -0.2 NA 0.9 -0.5 -0.6 0.5	C1 (MRF) 1.7 -1.0 -0.6 -0.7 -0.4 1.9 0.6 -0.2 -0.6 0.3 ACT Detaile □ Ye □ Ye □ Ye ⊠ Ye ⊠ No	I SCO C2 (SW) 2.1 -1.1 -0.6 -0.9 -0.7 2.1 0.8 -0.2 -0.8 0.3	RE, S, (URM INF) 1.4 -0.8 -0.5 -0.6 -0.1 NA 0.7 -0.4 -0.4 0.3 EQUIF tural Ev pwn FEN less tha hazards	L1 PC1 (TU) 1.8 -1.0 -0.6 -0.8 -0.4 2.1 0.9 -0.5 NA 0.3 RED aluation A buildi n cut-off present	PC2 1.5 -0.9 -0.6 -0.7 -0.3 2.4 0.7 -0.3 -0.5 0.2 Require ng type o	(FD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.6 0.3 ed?	(RD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.7 0.3 uilding	1.2 -0.8 -0.5 -0.5 -0.1 NA 0.6 -0.3 -0.3 0.2	2.2 NA NA -0.3 1.2 0.9 -0.5 NA
FEMA BUILDING TYPE Do Not Know Basic Score Severe Vertical Irregularity, V_{L1} Moderate 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, SMIN FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$: EXTENT OF REVIEW Exterior: Interior: None Drawings Reviewed: X Yes Soil Type Source: DOGAMI Geologic Hazards Source: DOGAM	B/ W1 4.1 -1.3 -0.8 -1.3 -0.8 1.5 0.3 0.0 -0.5 1.6 1.8 H All Sides /isible No	W1A 3.7 -1.3 -0.8 -0.9 1.9 0.6 -0.1 -0.8 1.2 High C Aer X Ente	W2 -1.3 -0.8 -1.1 -0.9 2.3 0.9 -0.3 -1.2 0.8 collaps ial ered	S1 (MRF) 2.3 -1.1 -0.7 -0.5 1.4 0.6 -0.7 0.5 e Pote OTHEF Are There Detailed S □ Poun cut-oi □ Fallin buildi □ Geolo	S2 (BR) -1.0 -0.6 -0.8 -0.5 -0.7 -0.5 -0.7 -0.5 ntial R HAZ R HAZ R HAZ R HAZ R HAZ	RS, AN S3 (LM) 2.9 -1.2 -0.8 -1.0 -0.7 1.0 0.3 0.0 NA 0.9 ARDS ds That 1 ral Evalu ential (un wn)	S4 (RC SW) 2.2 -1.0 -0.6 -0.8 -0.6 1.9 0.9 -0.4 -0.7 0.5	IAL LE S5 (URM INF) 2.0 -0.9 -0.6 -0.7 -0.2 NA 0.9 -0.5 -0.6 0.5 Constant Constant F	C1 (MRF) 1.7 -1.0 -0.6 -0.7 -0.4 1.9 0.6 -0.2 -0.6 0.3 ACTI Detaile □ Ye ⊠ No Detaile □ Ye	I SCO C2 (SW) 2.1 -1.1 -0.6 -0.9 -0.7 2.1 0.8 -0.2 -0.8 0.3	RE, S, (URM INF) 1.4 -0.8 -0.5 -0.6 -0.1 NA 0.7 -0.4 -0.4 0.3 EQUIF tural Ev bwn FEM less tha hazards tructural	L1 PC1 (TU) 1.8 -1.0 -0.6 -0.8 -0.4 2.1 0.9 -0.5 NA 0.3 RED aluation A buildi n cut-off present I Evaluat hazards	PC2 1.5 -0.9 -0.6 -0.7 -0.3 2.4 0.7 -0.3 -0.5 0.2 A Require ng type of ation Rec	(FD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.6 0.3 ed? or other but comment 4 that sho	(RD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.7 0.3 uilding ded? (ch uld be ev	1.2 -0.8 -0.5 -0.5 -0.1 NA 0.6 -0.3 -0.3 -0.3 0.2	2.2 NA NA -0.3 1.2 0.9 -0.5 NA 1.4
FEMA BUILDING TYPE Do Not Know Basic Score Do Not Know Basic Score Severe Vertical Irregularity, V_{L1} Moderate 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, SMIN FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$: EXTENT OF REVIEW Exterior: Interior: None Drawings Reviewed: Yes Soil Type Source: DOGAMI Geologic Hazards Source: DOGAMI LEVEL 2 SCREENING PERFORMED	B/ W1 4.1 -1.3 -0.8 -1.3 -0.8 1.5 0.3 0.0 -0.5 1.6 1.8 H All Sides /isible No	W1A 3.7 -1.3 -0.8 -1.2 -0.9 1.9 0.6 -0.1 -0.8 1.2 High C ☐ Aer ⊠ Enter	W2 -1.3 -0.8 -1.1 -0.9 2.3 0.9 -0.3 -1.2 0.8 collaps	S1 (MRF) 2.3 -1.1 -0.7 -0.5 1.4 0.6 -0.4 -0.7 0.5 e Pote OTHEF Are There Detailed S □ Poun cut-oi □ Fallin buildi □ Geold Signifi	S2 (BR) -1.0 -0.6 -0.8 -0.5 -0.7 -0.5 -0.7 -0.5 -0.7 -0.5 ntial R HAZ R HAZ R HAZ R HAZ R HAZ	RS, AI S3 (LM) 2.9 -1.2 -0.8 -1.0 -0.7 1.0 0.3 0.0 NA 0.9 CARDS ds That I ral Evalu ential (un wn) ds from ta ards or S mage/de	S4 (RC SW) 2.2 -1.0 -0.6 -0.8 -0.6 1.9 0.9 -0.4 -0.7 0.5	IAL LE S5 (URM INF) 2.0 -0.9 -0.6 -0.7 -0.2 NA 0.9 -0.5 -0.6 0.5 Constant Constant F	EVEL ✓ C1 (MRF) 1.7 -1.0 -0.6 -0.7 -0.4 1.9 0.6 -0.2 -0.6 0.3 Detaile Ye □ Ye Ye □ Ye No Detaile Ye □ Ye No	I SCO C2 (SW) 2.1 -1.1 -0.6 -0.9 -0.7 2.1 0.8 -0.2 -0.8 0.3	RE, S, (URM INF) 1.4 -0.8 -0.5 -0.6 -0.1 NA 0.7 -0.4 -0.4 0.3 EQUIF tural Ev bwn FEM less tha hazards tructural h	L1 PC1 (TU) 1.8 -1.0 -0.6 -0.8 -0.4 2.1 0.9 -0.5 NA 0.3 RED aluation A buildi n cut-off present I Evaluation	PC2 1.5 -0.9 -0.6 -0.7 -0.3 2.4 0.7 -0.3 -0.5 0.2 A Require ing type of ation Rec identified exist that	(FD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.6 0.3 ed? or other but comment 4 that sho	(RD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.7 0.3 uilding ded? (ch uld be ev	1.2 -0.8 -0.5 -0.5 -0.1 NA 0.6 -0.3 -0.3 -0.3 0.2	2.2 NA NA -0.3 1.2 0.9 -0.5 NA 1.4
FEMA BUILDING TYPE Do Not Know Basic Score Do Not Know 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, SMIN FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$: EXTENT OF REVIEW Exterior: Partial I// / / / / / / / / / / / / / / / / / /	B/ W1 4.1 -1.3 -0.8 -1.3 -0.8 1.5 0.3 0.0 -0.5 1.6 1.8 H All Sides /isible No	W1A 3.7 -1.3 -0.8 -1.2 -0.9 1.9 0.6 -0.1 -0.8 1.2 High C Aer X Enter	W2 3.2 -1.3 -0.8 -1.1 -0.9 2.3 0.9 -0.3 -1.2 0.8 collaps collaps	S1 (MRF) 2.3 -1.1 -0.7 -0.5 1.4 0.6 -0.4 -0.7 0.5 e Pote OTHEF Are There Detailed S □ Poun cut-oi □ Fallin buildi □ Geold Signifi	S2 (BR) -1.0 -0.6 -0.8 -0.5 -0.7 -0.5 -0.7 -0.5 -0.7 0.5 ntial R HAZ B Hazard G Structur ding pot ff, if knov g hazard ng ogic hazard ficant da	RS, AI S3 (LM) 2.9 -1.2 -0.8 -1.0 -0.7 1.0 0.3 0.0 NA 0.9 CARDS ds That I ral Evalu ential (un wn) ds from ta ards or S mage/de	S4 (RC SW) 2.2 -1.0 -0.6 -0.8 -0.6 1.9 0.9 -0.4 -0.7 0.5	IAL LE S5 (URM INF) 2.0 -0.9 -0.6 -0.7 -0.2 NA 0.9 -0.5 -0.6 0.5 Constant Constant F	C1 (MRF) 1.7 -1.0 -0.6 -0.7 -0.4 1.9 0.6 -0.2 -0.6 0.3 0.6 0.3 0.6 0.3 0.6 0.3 0.6 0.2 -0.6 0.3 0.6 0.3	I SCO C2 (SW) 2.1 -1.1 -0.6 -0.9 -0.7 2.1 0.8 -0.2 -0.8 0.3 ION R ION R	RE, S, (URM INF) 1.4 -0.8 -0.5 -0.6 -0.1 NA 0.7 -0.4 -0.4 0.3 EQUIF tural Ev bwn FEM less tha hazards tructural I uctural h aluation	L1 PC1 (TU) 1.8 -1.0 -0.6 -0.8 -0.4 2.1 0.9 -0.5 NA 0.3 RED aluation fa buildi n cut-off present I Evaluation aluation I Evaluation I E	PC2 1.5 -0.9 -0.6 -0.7 -0.3 2.4 0.7 -0.3 -0.5 0.2 A construction Reconstruction attion Reconstruction attio	(FD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.6 0.3 ed? or other but comments that sho may requ	(RD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.7 0.3 uilding ded? (ch uild be ev uire mitig:	1.2 -0.8 -0.5 -0.5 -0.1 NA 0.6 -0.3 -0.3 -0.3 0.2	2.2 NA NA -0.3 1.2 0.9 -0.5 NA 1.4
FEMA BUILDING TYPE Do Not Know Basic Score Do Not Know Basic Score Severe Vertical Irregularity, V_{L1} Moderate Vertical 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, SMIN FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$: EXTENT OF REVIEW Exterior: Partial D Interior: None N Soil Type Source: DOGAMI Geologic Hazards Source: DOGAM Contact Person:	B/ ₩1 4.1 -1.3 -0.8 -1.3 -0.8 1.5 0.3 0.0 -0.5 1.6 1.8 H All Sides /isible No All Sides /isible	W1A 3.7 -1.3 -0.8 -1.2 -0.9 1.9 0.6 -0.1 -0.8 1.2 High C ☑ Aerr ☑ Enter ☑ N ☑ N ☑ N	W2 3.2 -1.3 -0.8 -1.1 -0.9 2.3 0.9 -0.3 -1.2 0.8 collaps ial ered 0 0 0 0	S1 (MRF) 2.3 -1.1 -0.7 -0.9 -0.5 1.4 0.6 -0.4 -0.5 E Potel OTHEF Are There Detailed S Poun cut-o' Geold Signit the st	S2 (BR) -1.0 -0.6 -0.8 -0.5 1.4 0.9 -0.5 -0.7 0.5 ntial R HAZ C H	RS, AI S3 (LM) 2.9 -1.2 -0.8 -1.0 -0.7 1.0 0.3 0.0 NA 0.9 ARDS ds That I ral Evalu ential (un wn) ds from ta ards or S mage/de system	S4 (RC SW) 2.2 -1.0 -0.6 -0.8 -0.6 1.9 0.9 -0.4 -0.7 0.5	IAL LE S5 (URM INF) -0.9 -0.6 -0.7 -0.2 NA 0.9 -0.5 -0.6 0.5 -0.6 0.7	C1 (MRF) 1.7 -1.0 -0.6 -0.7 -0.4 1.9 0.6 -0.2 -0.6 0.3 Detaile □ Ye □ Ye □ Ye □ No	I SCO C2 (SW) 2.1 -1.1 -0.6 -0.9 -0.7 2.1 0.8 -0.2 -0.8 0.3	RE, S, (URM INF) 1.4 -0.8 -0.5 -0.6 -0.1 NA 0.7 -0.4 -0.4 0.3 EQUIF tural Ev bwn FEM less tha hazards tructural h aluation astructura	L1 PC1 (TU) 1.8 -1.0 -0.6 -0.8 -0.4 2.1 0.9 -0.5 NA 0.3 RED aluation A buildi n cut-off present I Evalua hazards e is not ne al hazards	PC2 1.5 -0.9 -0.6 -0.7 -0.3 2.4 0.7 -0.3 -0.5 0.2 A Require identified exist that cessary ds identified	(FD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.6 0.3 ed? or other but commend that sho may required	(RD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.7 0.3 uilding ded? (ch uild be ev ire mitig:	1.2 -0.8 -0.5 -0.5 -0.1 NA 0.6 -0.3 -0.3 -0.3 0.2	2.2 NA NA -0.3 1.2 0.9 -0.5 NA 1.4
FEMA BUILDING TYPE Do Not Know Basic Score Do Not Know Basic Score Severe Vertical Irregularity, V_{L1} Moderate 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, Sminv FINAL LEVEL 1 SCORE, $S_{L1} \ge Smint$: EXTENT OF REVIEW Exterior: Partial M Interior: None None N Drawings Reviewed: Yes I Soil Type Source: DOGAMI Geologic Hazards Source: DOGAMI Geologic Reviewed: Yes I LEVEL 2 SCREENING PERFOR Yes, Final Level 2 Score, S_{L2}	B/ 4.1 -1.3 -0.8 -1.3 -0.8 1.5 0.3 0.0 -0.5 1.6 1.8 H All Sides /isible No	W1A 3.7 -1.3 -0.8 -1.2 -0.9 0.6 -0.1 -0.8 1.2 High C ☑ Aer ☑ Ente ☑ O? ☑ N ☑ N ☑ N ☑ N ☑ N ☑ N ☑ N ☑ N	W2 3.2 -1.3 -0.8 -1.1 -0.9 -0.3 -1.2 0.8 collaps collaps o o do o do o do	S1 (MRF) 2.3 -1.1 -0.7 -0.9 -0.5 1.4 0.6 -0.4 -0.5 E Potel OTHEF Are There Detailed S Poun cut-o' Geold Signit the st	S2 (BR) -1.0 -0.6 -0.8 -0.5 1.4 0.9 -0.5 -0.7 0.5 ntial R HAZ e Hazard ff , if knov g hazard ng pot ff, if knov g hazard ff, if knov ff, if knov ff	RS, AI S3 (LM) 2.9 -1.2 -0.8 -1.0 -0.7 1.0 0.3 0.0 NA 0.9 CARDS ds That I val Evalu ential (un vn) ds from ta ards or S mage/de system re follow	ND FIN S4 (RC SW) 2.2 -1.0 -0.6 -0.8 -0.6 1.9 0.9 -0.4 -0.7 0.5	IAL LE S5 (URM INF) 2.0 -0.9 -0.6 -0.7 -0.2 NA 0.9 -0.5 -0.6 0.5	C1 (MRF) 1.7 -1.0 -0.6 -0.7 -0.4 1.9 0.6 -0.2 -0.6 0.3 Detaile □ Ye □ Ye □ Ye □ No	I SCO C2 (SW) 2.1 -1.1 -0.6 -0.9 -0.7 2.1 0.8 -0.2 -0.8 0.3	RE, S (URM INF) 1.4 -0.8 -0.5 -0.6 -0.1 NA 0.7 -0.4 -0.4 0.3 EQUIF tural Ev bown FEM less tha hazards tructural h aluation istructura bble data	PC1 (TU) 1.8 -1.0 -0.6 -0.8 -0.4 2.1 0.9 -0.5 NA 0.3	PC2 1.5 -0.9 -0.6 -0.7 -0.3 2.4 0.7 -0.3 -0.5 0.2 A Require identified exist that cessary ds identified	(FD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.6 0.3 ed? or other but commend that sho may required Ed (C) Do Not Kin	(RD) 1.8 -1.0 -0.6 -0.7 -0.5 2.1 0.8 -0.4 -0.7 0.3 uilding ded? (ch uild be ev uire mitig: DNK 1000	1.2 -0.8 -0.5 -0.5 -0.1 NA 0.6 -0.3 -0.3 -0.3 0.2	2.2 NA NA -0.3 1.2 0.9 -0.5 NA <i>1.4</i>