

October 8, 2012

Ms. Joanne Williams  
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Subject: 27235 Tourney Road, Santa Clarita, CA  
Seismic Screening Report  
JLA Job no. 12111-20

Dear Ms. Williams,

Per your request, we have performed a seismic screening of the building located at 27235 Tourney Road, Santa Clarita, California. Our services included a site visit performed on October 6, 2012 to observe the existing conditions of the exposed structural systems, review of the available as-builts & an evaluation of the existing structural systems of the building.

Building Description

The existing office building is located at 27235 Tourney Road, Santa Clarita, California. The building consists of a 2-story steel-framed structure on grade with overall plan dimensions measuring approximately 216 feet by 76 feet. The building was designed in 2007.

Structural Drawings for the building: S1.1 through S5.1 by Vinci & Associates, Structural Engineers, dated October 15, 2007.

## Construction

### *Gravity Construction:*

The gravity framing of the floor construction consists of 2 ½" light weight concrete over 2" metal deck spanning, which spans between open web steel joists. The steel joists are supported by steel girders and steel columns.

The gravity framing of the roof construction consists of plywood sheathing over wood subpurlins, which span between open web steel joists. The steel joists are supported by steel girders and steel columns.

### *Foundation System:*

The foundation system consists of 5" concrete slab on grade, with the columns being supported by reinforced concrete pad footings.

### *Lateral-Load-Resisting-System:*

The lateral force resisting system consists of plywood sheathing (at roof) and metal deck with concrete fill (at floor) that act as diaphragms to transfer seismic inertial forces to welded steel moment frames at the perimeter & interior steel braced frames at interior.

## Observations

The exposed structural elements appeared to be in good condition considering the age of the building.

## Seismic Evaluation Criteria

*General:* The property was evaluated based on the University of California Seismic Safety Policy dated August 25, 2011. The seismic policy provides 7 seismic performance ratings: I thru VII. Please refer to Appendix for more info on Seismic Safety Policy & rating.

### Seismic Evaluation

- The structure has a complete load path to transfer seismic inertial forces to the foundations.
- There are no significant strength or stiffness discontinuities in the vertical elements of the lateral-load-resisting system.
- The roof and floor diaphragms are continuous with no major openings.
- It appears that the welded steel moment frames & steel braced frames are adequate for the size, configuration, and age of the building.
- Based on our review of available structural drawings, our site observations, the age of the building, the code that was used for the design of the structure, performance of similar structures during past earthquakes, a major seismic disturbance is anticipated to result in some structural and/or nonstructural damage that would not significantly jeopardize life

### Seismic Rating

III

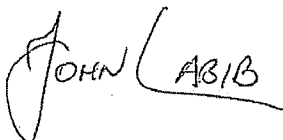
### Limitations

This limited seismic screening was based on our limited site observations of the exposed structural members & our review of the existing structural drawings. Services were performed by JLA in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions. The structural observations and recommendations represent our opinion and are not intended to preempt the responsibility of the original design consultants in any way. No other warranty, expressed or implied, is made.

If you have any questions, please do not hesitate to call us.

Yours truly,

John Labib & Associates



John Labib, S.E.  
President



**APPENDIX A**

**Earthquake Performance Levels For Existing Buildings**

This series of definitions was developed by the California State University, the University of California, the California Department of General Services, and the Administrative Office of the Courts from 1995 through 2009.

**Table A.1. Determination of Expected Seismic Performance Based on Structural Compliance with the 2010 Edition, California Code of Regulations, Part 2, California Building Code (CBC)**

| Definitions based upon California Building Code (CBC) requirements for seismic evaluation of buildings using Occupancy Categories of CBC Table 1604A.5, depending on which applies, and performance criteria in CBC Table 3417.5 <sup>2</sup>  | Rating Level <sup>1</sup>   |                          |
|--|-----------------------------|--------------------------|
|  | No Peer Review <sup>5</sup> | Peer Review <sup>5</sup> |
| A building evaluated as meeting or exceeding the requirements of CBC Chapter 34 for Occupancy Category IV performance criteria with BSE-1 and BSE-2 hazard levels replacing BSE-R and BSE-C as given in Chapter 34.  | <b>I</b>                    | <b>I</b>                 |
| A building evaluated as meeting or exceeding the requirements of CBC Chapter 34 for Occupancy Category IV performance criteria.  | <b>II</b>                   | <b>II</b>                |
| A building evaluated as meeting or exceeding the requirements of CBC Chapter 34 for Occupancy Category I-III performance criteria with BSE-1 and BSE-2 hazard levels replacing BSE-R and BSE-C respectively as given in Chapter 34; alternatively, a building meeting CBC requirements for a new building. | <b>III</b>                  | <b>II<sup>b</sup></b>    |
| A building evaluated as meeting or exceeding the requirements of CBC Chapter 34 for Occupancy Category I-III performance criteria.   | <b>IV</b>                   | <b>III<sup>b</sup></b>   |
| A building evaluated as meeting or exceeding the requirements of CBC Chapter 34 for Occupancy Category I-III performance criteria only if the BSE-R and BSE-C values are reduced to 2/3 of those specified for the site.   | <b>V</b>                    | <b>IV<sup>b</sup></b>    |
| A building evaluated as not meeting the minimum requirements for Level V designation and not requiring a Level VII designation.  | <b>VI</b>                   | <b>VI</b>                |
| A building evaluated as posing an immediate life-safety hazard to its occupants under gravity loads. The building should be evacuated and posted as dangerous until remedial actions are taken to assure the building can support CBC prescribed dead and live loads.                                      | <b>VII</b>                  | <b>VII</b>               |

For Notes, see page 14

**Table A.2. Indications of Implied Risk to Life and Implied Seismic Damageability**

| Rating Level <sup>1,5</sup> | Historic Risk Ratings of <sup>6,7</sup> |                 | Implied Risk to Life <sup>3</sup> | Implied Seismic Damageability <sup>4</sup> |
|-----------------------------|---|-----------------|-----------------------------------|--|
|                             | DSA/SSC <sup>7</sup>                    | UC <sup>8</sup> |                                   |  |
| I                           | I                                       |                 | Negligible                        | 0% to 10%                                  |
| II                          | II                                      |                 | Insignificant                     | 0% to 15%                                  |
| III                         | III                                     | Good            | Slight                            | 5% to 20%                                  |
| IV                          | IV                                      | Fair            | Small                             | 10% to 30%                                 |
| V                           | V                                       | Poor            | Serious                           | 20% to 50%                                 |
| VI                          | VI                                      | Very Poor       | Severe                            | 40% to 100%                                |
| VII                         | VII                                     | Very Poor       | Dangerous                         | 100%                                       |

**Notes:**

1. Earthquake damageability levels are indicated by Roman numerals I through VII. Assignments are to be made following a professional assessment of the building's expected seismic performance as measured by the referenced technical standard and earthquake ground motions. Equivalent Arabic numerals, fractional values, or plus or minus values are not to be used. These assignments were prepared by a task force of state agency technical personnel, including the California State University, the University of California, the California Department of General Services, the Division of the State Architect, and the Administrative Office of the Courts. The ratings apply to structural and non-structural elements of the building as contained in Chapter 34, CBC requirements. These definitions replace those previously used by these agencies.
2. Chapter 34 of the California Building Code, current edition, regulates existing buildings. It uses and references the American Society of Civil Engineers Standard *Seismic Rehabilitation of Existing Buildings, ASCE-41*. All earthquake ground motion criteria are specific to the site of the evaluated building. The CBC definitions for earthquake ground motions to be assessed are paraphrased below for convenience:
 

BSE-2, the 2,475-year return period earthquake ground motion, or 150% of the Maximum Considered Earthquake ground motion for the site.  
 BSE-C, the 975-year return period earthquake ground motion.  
 BSE-1, two-thirds of the BSE-2, nominally, the 475-year return period earthquake ground motion.  
 BSE-R, the 225-year return period earthquake ground motion.

*Occupancy Category* is defined in the CBC Table 1604A.5. The occupancy category sets the level of required seismic building performance under the CBC. Occupancy Category IV includes acute care hospitals, fire, rescue and police stations and emergency vehicle garages, designated emergency shelters, emergency operations centers, and structures containing highly toxic materials where the quantities exceed the maximum allowed quantities, among others. Occupancy categories I-III includes all other building uses that include most state owned buildings.
3. Implied Risk to Life is a subjective measure of the threat of a life threatening injury or death that is expected to occur in an average building in each rank following the indicated technical requirements. The terms negligible through dangerous are not specifically defined, but are linguistic indications of the relative degree of hazard posed to an individual occupant.
4. Implied Damageability is the level of damage expected to the average building in each rank following the indicated technical requirements when a BSE-1 level earthquake occurs. The damage includes both the structural and non-structural systems, but does not consider furnishing and tenant contents. Damage is measured as the ratio of the cost to repair the building divided by the current cost to reconstruct the building from scratch. Such assessments are to be completed to the requirements of ASTM E-2026 at ASTM Level 1 or higher in order to be considered appropriate, where the damage ratio is the Scenario Expected Loss (SEL) in the BSE-1 earthquake ground motion evaluated. ASTM E2026 is the standard for evaluating the seismic damageability of buildings for financial transactions.
5. In those cases where the engineer making the assessment using the requirements for a given Rating Level concludes that the expected seismic performance is consistent with a one-level higher or lower rating, this

alternative Rating Level may be assigned if and only if an independent technical peer reviewer concurs in the evaluation. The peer review must be completed consistent with the requirements of Chapter 34 of the CBC. It is anticipated that most projects that are independently peer reviewed from the initiation of the evaluation and/or design process will qualify for a higher Rating than those buildings, which have not been so reviewed at all. The second column under Peer Review the Ratings have been assigned when this occurs. Note that peer review is unlikely to improve buildings rated as VI or VII because they have fundamental seismic system flaws. The ratings for I and II are not changed because the performance increment between levels is so large.

6. Historically the University of California has used the terms good, fair, poor and very poor to distinguish the relative seismic performance of buildings. The concordance of values in the table above is approximate. The former rating procedures did not provide specific performance levels as is done herein, but were sentence fragments for qualitative performance and are recalled below for historical purposes only:

A *Good* seismic performance rating would apply to buildings and other structures whose performance during a major seismic disturbance is anticipated to result in some structural and/or nonstructural damage and/or falling hazards that would not /significantly/ jeopardize life. Buildings and other structures with a *Good* rating would have a level of seismic resistance such that funds need not be spent to improve their seismic resistance to gain greater life safety, and would represent an acceptable level of earthquake safety.

A *Fair* seismic performance rating would apply to buildings and other structures whose performance during a major seismic disturbance is anticipated to result in structural and nonstructural damage and/or falling hazards that would represent /low/ life hazards. Buildings and other structures with a *Fair* seismic performance rating would be given a low priority for expenditures to improve their seismic resistance and/or to reduce falling hazards so that the building could be reclassified *Good*.

A *Poor* seismic performance rating would apply to buildings and other structures whose performance during a major seismic disturbance is anticipated to result in significant structural and nonstructural damage and/or falling hazards that would represent appreciable life hazards. Such buildings or structures either would be given a high priority for expenditures to improve their seismic resistance and/or to reduce falling hazards so that the building could be reclassified as *Good*, or would be considered for other abatement programs, such as reduction of occupancy.

A *Very Poor* seismic performance rating would apply to buildings and other structures whose performance during a major seismic disturbance is anticipated to result in /extensive/ structural and nonstructural damage, potential structural collapse, and/or falling hazards that would represent /high/ life hazards. Such buildings or structures either would be given the highest priority for expenditures to improve their seismic resistance and/or to reduce falling hazards so that the building could be reclassified *Good*, or would be considered for other abatement programs such as reduction of occupancy.

7. For reference, the historically used Division of the State Architect and Seismic Safety Commission levels corresponds approximately to the new Performance Level numerical values in this table.