Where description is indicated, attach additional pages of notes and photographs keyed to appropriate checklist item.

## A. GENERAL INFORMATION

1. **Street Address of the School:** PR 123 km. 51.6 Bo. Caguana
   - City: Utuado
   - State: Puerto Rico
   - Zip: 00641

2. **School Name:** Francisco Jordán

3. **Date of inspection:** Friday 31 January, 2020

4. **Inspector’s Name:** Adolfo Bonilla Rodriguez, P.E., R.P.A - Lic. 10088

## B. BUILDING SITE INSPECTION

5. **Utility Service Safety:**

   **IMPORTANT**—Immediately following an earthquake, check the entire property, especially near appliances, for the smell of gas. If gas odor is detected, turn off the gas at the meter where it enters the house. Locate and repair leaks before turning gas back on. If the gas odor persists after the gas has been shut off, vacate the building and contact the gas utility company immediately.

   **IMPORTANT**—Before entering a damaged, vacant building verify that gas is off. Check the gas meter for damage and position of main gas valve, either a manual valve or a seismically-activated gas shut-off valve. Do not enter the building if gas odor is detected.

   a. Odor of natural gas leakage? YES ☑️ NO ☐
   b. Downed powerlines? YES ☑️ NO ☐

6. **Surrounding topography:** (check one)
   - Flat
   - Gently sloping (easily walkable)
   - Steeply sloping (difficult or impossible to walk in some areas)

7. **Building pad:** (check one)
   - Flat
   - Terraced or multilevel
   - Gently sloping (less than 4-foot ground surface elevation difference across house)
   - Steeply sloping (greater than 4-foot ground surface elevation difference across house)

8. **Geotechnical Issues:** (if yes, provide description and photos)
   - New cracks in the ground? YES ☑️ NO ☐
   - Signs of fresh cracking in or movement of hardscape? YES ☑️ NO ☐
   - Signs of fresh cracking in or movement of retaining walls? YES ☑️ NO ☐
   - Patterns of cracking that extend through the ground surface, hardscape, and improvements? YES ☑️ NO ☐
   - Evidence of sand boils or other fresh-appearing deposits of sand or mud? YES ☑️ NO ☐
   - Unusual slumping, rising, or bulging of the ground surface? YES ☑️ NO ☐
   - Evidence of rock falls or slope instability above site? YES ☑️ NO ☐
   - Ground movement or wet areas indicating possible broken underground utility lines? YES ☑️ NO ☐
   - Other phenomena (e.g., septic tanks surfacing, differential settlement, ground consolidation)? YES ☑️ NO ☐
Where description is indicated, attach additional pages of notes and photographs keyed to appropriate checklist item.

B. BUILDING SITE INSPECTION (continued)

9. Evidence of earthquake-induced permanent ground deformation in the immediate vicinity of the property?
   - YES (X)
   - NO

C. GENERAL BUILDING INFORMATION

10. Safety Assessment Tag: (check one)  
   - X None  
   - Green  
   - Yellow  
   - Red  
   (others): 
   - Yellow  
   - Red

11. a) Year of original construction (best estimate): 1985  
    b) Total square footage (best estimate): 15300 school  
       6500 basketball court

12. Have any repairs, modifications, or demolition been performed since the earthquake?
   - YES (X)

13. Building configuration: 
   - a. Single story
   - X b. Combination one and two story
   - c. Full two story
   - d. Three story
   - e. Split level
   - f. Typical
   - g. Other, describe __________________________

14. Exterior wall finish: 
   - a. Stucco
   - b. Panel siding
   - c. Metal siding
   - d. Masonry veneer
   - X e. Other, describe __ Cement Plaster __

15. Foundation configuration: 
   - a. Slab-on-grade
   - b. Crawlspace without cripple walls
   - c. Crawlspace with cripple walls
   - d. Exposed piers or posts
   - X e. Typical Beam and columns (Portico)
   - f. Metal
   - g. Other, describe __________________________

16. Sill bolting: 
   - a. Structure bolted to foundation
   - b. Structure not bolted to foundation
   - X c. Don’t know Presume not bolted

17. Roof configuration: 
   - a. Gable
   - b. Hip
   - c. Flat or very low slope
   - X d. Shed
   - e. Other, describe __________________________

18. Roof covering: 
   - a. Asphalitic membrane
   - b. Wood shingle or shake
   - X c. Concrete
   - X d. Metal
   - e. Elastomeric
   - f. Other, describe __________________________
## D. EXTERIOR BUILDING INSPECTION

19. **General:** (if yes, provide description and photos)  
   - Collapse, partial collapse, or building off foundation?  
   - Obvious lean in any story?

20. **Exterior walls:** (if yes, provide description and photos)  
   - Fresh cracking at corners of door and window openings?  
   - Fresh cracking at building corners?  
   - Door or window openings racked out of square?  
   - Broken glass in windows or doors?  
   - Wall leaning?  
   - Bulging or delamination of stucco?  
   - Pattern of cracking that extends from the ground surface, through foundation, and wall?  
   - Evidence of recent relative movement at mudsill line?  
   - At locations where the exterior stucco is continuous from the framing down over the foundation, is there cracking of stucco along the mudsill level accompanied by indications of permanent displacement (sliding) of the building relative to the foundation?  
   - Collapse, partial collapse, or separation of masonry veneer?  
   - Severe cracking, separations, or offsets at building irregularities?

21. **Foundation:** (if yes, provide description and photos)  
   - Fresh cracking of exposed perimeter foundation?  
   - Relative movement between slab and footing in “two-pour” slab-on-grade foundations?  
   - Ask homeowner if any earthquake retrofits have been done to the home?  
   - If Y describe: ____________________________  
   - If the answer to c is Y, were bolts added to connect the home to the foundation?  
   - If the answer to c is Y, were plywood or sheathing added to any cripple walls under the home?
### D. EXTERIOR BUILDING INSPECTION (continued)

<table>
<thead>
<tr>
<th></th>
<th>YES</th>
<th>NO</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>22. Kitchen Hook (if yes, provide description and photos)</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>a. Present on external wall?</td>
<td>□</td>
<td>X</td>
<td>□</td>
</tr>
<tr>
<td>b. Present at internal location?</td>
<td>□</td>
<td>X</td>
<td>□</td>
</tr>
<tr>
<td>c. Collapse or partial collapse?</td>
<td>□</td>
<td>X</td>
<td>□</td>
</tr>
<tr>
<td>d. Visible damage or cracking?</td>
<td>□</td>
<td>X</td>
<td>□</td>
</tr>
<tr>
<td>e. Visible tilting or separation from building?</td>
<td>□</td>
<td>X</td>
<td>□</td>
</tr>
<tr>
<td>f. Shifted or loose and displaced</td>
<td>□</td>
<td>X</td>
<td>□</td>
</tr>
<tr>
<td>g. Deterioration or deformation</td>
<td>□</td>
<td>X</td>
<td>□</td>
</tr>
<tr>
<td>23. Roof: (if yes, provide description and photos)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. Shifted or dislodged or concrete damage?</td>
<td>□</td>
<td>X</td>
<td>□</td>
</tr>
<tr>
<td>b. Impact damage to roof from falling object?</td>
<td>□</td>
<td>X</td>
<td>□</td>
</tr>
<tr>
<td>c. Displaced rooftop HVAC units?</td>
<td>□</td>
<td>X</td>
<td>□</td>
</tr>
<tr>
<td>d. Significantly sagging roof ridgelines?</td>
<td>□</td>
<td>X</td>
<td>□</td>
</tr>
<tr>
<td>e. Signs of movement between rafter tails and wall finishes at eaves?</td>
<td>□</td>
<td>X</td>
<td>□</td>
</tr>
<tr>
<td>f. Buckled/dislodged flashing or tearing of roof membrane, roof/wall intersections in split level buildings, additions, or other building irregularities?</td>
<td>□</td>
<td>X</td>
<td>□</td>
</tr>
<tr>
<td>g. Tearing of roof membrane or deck waterproofing at re-entrant corners?</td>
<td>□</td>
<td>X</td>
<td>□</td>
</tr>
<tr>
<td>h. Toppling, shifting, or damage/leakage at refrigerant and electrical lines of rooftop mechanical equipment?</td>
<td>□</td>
<td>□</td>
<td>X</td>
</tr>
<tr>
<td>i. Shifting of or damage to solar panels?</td>
<td>□</td>
<td>□</td>
<td>X</td>
</tr>
</tbody>
</table>
D. EXTERIOR BUILDING INSPECTION (continued)

24. Attached or abutting improvements: (if yes, provide description and photos)  
   YES  NO  N/A
   a. Collapse, partial collapse, or separation of attached porches, carports, Gazebos, or awnings?  
      [X]
   b. Evidence of recent settlement or displacement of exterior steps, patios, or walkways relative to the building?  
      [X]
   c. Signs of movement between building floor and/or exterior hardscape or retaining wall along the uphill side of steeply sloping sites?  
      [X]
   d. Toppling, shifting, or damage/leakage at refrigerant and electrical lines of air conditioning condenser unit(s)?  
      [X]

25. Independent exterior improvements: (if yes, provide description and photos)  
   YES  NO  N/A
   a. Damaged detached gazebo?  
      [X]
   b. Damage to fences / privacy walls?  
      [X]
   c. Damage to retaining walls?  
      [X]
   d. Damage to walkway?  
      [X]
   e. Evidence of leakage from water supply lines?  
      [X]
   f. Toppling, shifting, or damage/leakage at fuel connection of propane tanks?  
      [X]
   g. Others damage  
      [X]

E. INTERIOR INSPECTION  N/A

26. General information  
   YES  NO  N/A
   a. If interior access not possible, identify reason
      i. Red tag  
      [ ]
      ii. Hazardous materials  
      [ ]
      iii. Other hazardous condition, describe ________________________________  
      [ ]
      iv. Other, describe ________________________________  
      [ ]
   b. Typical wall and ceiling finish
      i. Drywall  
      [ ]
      ii. Plaster on gypsum lath  
      [ ]
      iii. Plaster on wood lath  
      [ ]
      iv. Other, describe ________________________________  
      [ ]
Where description is indicated, attach additional pages of notes and photographs keyed to appropriate checklist item.

### E. INTERIOR INSPECTION (continued)

<table>
<thead>
<tr>
<th>27. Walls: (if yes, provide description and photos)</th>
<th>YES</th>
<th>NO</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Fresh cracking, buckling, spalling, or detachment of interior wall finish at corners of door and window openings?</td>
<td></td>
<td>☒</td>
<td>☐</td>
</tr>
<tr>
<td>b. Fresh cracking of wall finishes at wall corners or wall/ceiling intersections?</td>
<td>☒</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td><em>Grietas capilares (hair crack) en paredes de bloques.</em></td>
<td></td>
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<td></td>
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<tr>
<td>c. Door or window openings racked out of square?</td>
<td>☐</td>
<td>☒</td>
<td>☐</td>
</tr>
<tr>
<td>d. Wall leaning?</td>
<td>☐</td>
<td>☒</td>
<td>☐</td>
</tr>
<tr>
<td>e. Pattern of cracking that extends from the floor slab through the wall?</td>
<td>☐</td>
<td>☒</td>
<td>☐</td>
</tr>
<tr>
<td>f. Movement or sliding of walls relative to the floor?</td>
<td>☒</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>g. Severe cracking, separations, or offsets at building irregularities?</td>
<td>☐</td>
<td>☒</td>
<td>☐</td>
</tr>
<tr>
<td>h. Doors damaged, difficult to operate, or inoperable?</td>
<td>☐</td>
<td>☒</td>
<td>☐</td>
</tr>
<tr>
<td>i. Windows damaged, difficult to operate, or inoperable?</td>
<td>☐</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>28. Ceilings: (if yes, provide description and photos)</th>
<th>YES</th>
<th>NO</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Collapse of ceiling finish?</td>
<td>☐</td>
<td>☒</td>
<td>☐</td>
</tr>
<tr>
<td>b. Fresh cracking of ceiling finishes, especially at re-entrant corners; cracks along corner bead at stairwell openings; cracking or tearing of finishes at ceiling/wall juncture; or multiple “nail pops”?</td>
<td>☐</td>
<td>☒</td>
<td>☐</td>
</tr>
<tr>
<td>c. Damage to ceiling finishes in vicinity of corridors or commons places?</td>
<td>☐</td>
<td>☒</td>
<td>☐</td>
</tr>
<tr>
<td>d. Separations or cracks in ceiling finishes at split-levels, re-entrant corners, additions, appendages, or other building discontinuities?</td>
<td>☐</td>
<td>☒</td>
<td>☐</td>
</tr>
<tr>
<td>e. Water damage or evidence of recent leakage from plumbing lines or roofing?</td>
<td>☐</td>
<td>☒</td>
<td>☐</td>
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</tbody>
</table>
## E. INTERIOR INSPECTION (continued)

### 29. Floors: (if yes, provide description and photos)

<table>
<thead>
<tr>
<th></th>
<th>YES</th>
<th>NO</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Evidence of recent sloping, sagging, settlement or displacement of floors?</td>
<td></td>
<td>☒</td>
<td></td>
</tr>
<tr>
<td>b. In slab-on-grade locations, fresh cracking of floor slab or floor finishes?</td>
<td></td>
<td>☒</td>
<td></td>
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<tr>
<td>c. Significant sagging or unusual bounciness of floors frames?</td>
<td></td>
<td>☒</td>
<td></td>
</tr>
<tr>
<td>d. Separations or cracks in floor finishes at split-levels, re-entrant corners, additions, appendages, or other building discontinuities?</td>
<td></td>
<td>☒</td>
<td></td>
</tr>
<tr>
<td>e. Signs of movement between floor and exterior hardscape or retaining wall along the uphill side of homes on steeply sloping sites?</td>
<td></td>
<td>☒</td>
<td></td>
</tr>
<tr>
<td>f. A pattern of fresh cracks, gaps, or joint separations in floor finishes?</td>
<td></td>
<td>☒</td>
<td></td>
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<tr>
<td>g. Impact damage to floor finishes from falling contents?</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

### 30. Mechanical systems: (if yes, provide description and photos)

<table>
<thead>
<tr>
<th></th>
<th>YES</th>
<th>NO</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Displaced connection of appliance flues connected to chimneys?</td>
<td></td>
<td>☒</td>
<td></td>
</tr>
<tr>
<td>b. Toppling, shifting, leakage from tank, leakage from water connections displaced flue connection or damage/leakage at gas line or electrical connection of water heater?</td>
<td></td>
<td>☒</td>
<td></td>
</tr>
<tr>
<td>c. Shifting, damage/leakage at gas line, flue connection, electrical connection, refrigerant line, and condensate drain connection of furnace or air conditioning fan-coil unit? Note: No electrical service at inspection date.</td>
<td></td>
<td>☒</td>
<td></td>
</tr>
<tr>
<td>d. Damage to gas line of gas stoves or gas fueled clothes dryers?</td>
<td></td>
<td>☒</td>
<td></td>
</tr>
<tr>
<td>e. Damage to toilets?</td>
<td></td>
<td>☒</td>
<td></td>
</tr>
<tr>
<td>f. Decreased or restricted water pressure at appliances, faucets, or toilets?</td>
<td></td>
<td>☒</td>
<td></td>
</tr>
<tr>
<td>g. Toppling or shifting of free-standing wood stove and/or flue?</td>
<td></td>
<td>☒</td>
<td></td>
</tr>
<tr>
<td>h. Toppling, shifting, damage/leakage at fuel connection of fuel oil tank?</td>
<td></td>
<td>☒</td>
<td></td>
</tr>
<tr>
<td>i. Other Damage in the dining room</td>
<td></td>
<td>☒</td>
<td></td>
</tr>
<tr>
<td>j. Damage near the gas tank</td>
<td></td>
<td>☒</td>
<td></td>
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</tbody>
</table>
Where description is indicated, attach additional pages of notes and photographs keyed to appropriate checklist item.

### E. INTERIOR INSPECTION (continued)

31. Architectural woodwork and special finishes: (if yes, provide description and photos)  
   YES | NO | N/A
   --- | --- | ---
   a. Shifting of or damage to kitchen or bathroom cabinetry?  
      | ☐ | ☑ | ☐
   b. Impact damage to countertops from falling objects?  
      | ☐ | ☑ | ☐
   c. Cracking of ceramic tile in showers or tub/shower enclosures consistent with earthquake damage to adjacent wall finishes?  
      | ☐ | ☑ | ☐

### F. CONTINGENT INSPECTIONS

32. Retaining Tank Wall damage?  
   YES | NO | N/A
   --- | --- | ---
   ☐ | ☐ | ☑

33. Water tank or other field subterranean structure  
   YES | NO | N/A
   --- | --- | ---
   ☐ | ☐ | ☑
G. RECOMENDACIÓN AL SECRETARIO

Departamento de Educación
Dr. Eligio Hernández Pérez
Secretario de Educación

Hora: 2:00 PM    Código: 33326 (AEP-8703)
Fecha de Inspección: January 31, 2020

Escuela: Francisco Jordán,
Municipio: Utuado

<p>| | |</p>
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Abrir Escuela (Verde)</td>
<td>X</td>
</tr>
<tr>
<td>Abrir Parcialmente la Escuela (Amarillo)</td>
<td></td>
</tr>
<tr>
<td>No Abrir la Escuela (Rojo)</td>
<td></td>
</tr>
</tbody>
</table>

Comentarios:

Columns de concreto de 1ft * 2 ft espacidades a 23 ft en el eje longitudinal y a 28.5 pies en el eje vertical. Vigas con seccion triangular de 1 ft* 5ft en un extremo rteduciendo a 1ft*2 ft en el otro extremo. El salón de artes culinarias (economía doméstica) la viga central presenta grieta capilares diagonales en la porción gruesa de la viga. Aparenta ser grietas existentes. Se tomo fotos para futura referencia. En la parte de abajo, existe un pórtico anexado al edificio, que presenta una grieta en la union con la columna. El pórtico no constituye parte del edificio. No obstante se recomienda una revisión de los planos.

El salón de agricultura, en el edificio posterior izquierdo, el cual es de un nivel, presenta grieta capilar y desprendimiento del empañetado en la parte superior de la columna contigu al baño. La grieta capilar constituye la unión entre el concreto de columna y concreto de viga. En los demás salones y comedor, se presentan grietas capilares en uniones de paredes de bloques y elementos de hormigón. No afecta columnas, vigas o techo.

__________________________________________________________________________________________

Adolfo Bonilla Rodriguez
Nombre (Letra de Molde)

Firma: ___________________________  # Licencia: 10088

Fecha de Expiración: 2024-06-19

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