G.	RECOMENDACIÓN AL SECRETARIO		
	Departamento de Educación Dr. Eligio Hernández Pérez Secretario de Educación		
	Hora: 1:00 pm	Código:	70078
	Escuela: Cacique Agueybaná  Municipio: Bayamón	Fecha de Inspección:	13/enero   2020
	Abrir Escuela (Verde)		

Comentarios:

José L. Girona Marquez Nombre (Letra de Molde)

Abrir Parcialmente la Escuela (Amarillo)

No Abrir la Escuela (Rojo)

7236-P.E. # Licencia

Sello

#### INFORME DE INSPECCION POR TERREMOTO

Proyecto:

Escuela Cacique Agueybaná / AEP-8113

Dirección:

Calle 61, Esquina Sierra Bayamón, Bayamón

Director:

Sr. Ernesto Toro

Fecha de Inspección:

13 de enero de 2020

Hora de Inspección:

1:00 pm

Inspector:

Ing. José L. Girona Márquez, Licencia Núm. 7236 - PE

#### **COMENTARIOS Y OBSERVACIONES:**

Escuela de tres (3) pisos – terreno semi llano:

- 1. Cubrir con madera tratada de ½" espesor laterales de las vigas en los pasillos.
- 2. Los techos son piezas pre-fabricados (Doble T)

"Jois" del final de la Doble "T", con grieta profunda frente al comedor, NO estructurales.

Se visitaron todos los salones, áreas de servicios, cancha y comedor. Además, se revisaron las líneas de gas en la cocina del comedor, no encontrando ningún liqueo de gas. Se aclara que la inspección realizada es visual de los elementos estructurales de los edificios existentes en relación únicamente a los efectos directos que el sismo pudo haber causado. Ningún análisis estructural ni cálculos han sido evaluados pertinentes a la construcción original de los edificios ni su cumplimiento con los códigos de construcción vigentes en Puerto Rico.

DE 70078 AEP 8113

# GENERAL EARTHQUAKE DAMAGE INSPECTION CHECKLIST

Α.	GENERAL INFORMATION		
1.	Street Address of the School:  Calle Gl, Esquina Sierra Ba	yamón	
-	City: Bayamón State: PR Zip:	•	
2.	School Name: Esc. Cacique Agueybana		
3.	Date of inspection:  13   cnero   2020   1:00    Inspector's Name:  Ing. José L. Girona Marguez	pm	
4.	Inspector's Name: Ing. José L. Girona Marquez		
B.	BUILDING SITE INSPECTION		
5.	Utility Service Safety:		
detected	TANT–Immediately following an earthquake, check the entire property, especially near appliances, for the sme d, turn off the gas at the meter where it enters the house. Locate and repair leaks before turning gas back on. e gas has been shut off, vacate the building and contact the gas utility company immediately.	ell of gas. If ga	s odor is or persists
IMPOR	TANT-Before entering a damaged, vacant building verify that gas is off. Check the gas meter for damage and ither a manual valve or a seismically-activated gas shut-off valve. Do not enter the building if gas odor is dete	I position of ma ected.	in gas
	a. Odor of natural gas leakage?    YES    NO    b. Downed powerlines?    YES	⊠ NO	
6.	Surrounding topography: (Echeck one)  Flat Gently sloping (easily walkable)  Steeply sloping (difficult or impossible to walk in some areas)		
7.	Building pad: (②check 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)	YES	NO
	a. New cracks in the ground?		$\boxtimes$
	b. Signs of fresh cracking in or movement of hardscape?		$\boxtimes$
	c. Signs of fresh cracking in or movement of retaining walls?		$\boxtimes$
	d. Patterns of cracking that extend through the ground surface, hardscape, and improvements?		$\boxtimes$
	e. Evidence of sand boils or other fresh-appearing deposits of sand or mud?		$\boxtimes$
	f. Unusual slumping, rising, or bulging of the ground surface?		×
	g. Evidence of rock falls or slope instability above site?		$\bowtie$
	h. Ground movement or wet areas indicating possible broken underground utility lines?		$\boxtimes$
	i. Other phenomena (e.g., septic tanks surfacing, differential settlement, ground consolidation)?		$\boxtimes$

В.	BUILDING SITE INSPECTION (continued)		YES	NO
9.	Evidence of earthquake-induced permanent ground deformation in property?	in the immediate vicinity of the		
c.	GENERAL BUILDING INFORMATION			
10.	Safety Assessment Tag: (12 check one) None Gr (others): Yellow	een Yellow Red		
11.	a) Year of original construction (best estimate): 1975 b) Total square footage (best estimate): 112,000 Pt.		YES	NO
12.	Have any repairs, modifications, or demolition been performed si If yes, describe	nce the earthquake?		<b>⊠</b>
13.	Building configuration:  a. Single story  b. Combination one and two story  c. Full two story  d. Three story  e. Split level  f. Typical  g. Other, describe	Sill bolting:  a. Structure bolted to foundat  b. Structure not bolted to four  c. Don't know   Roof configuration:  a. Gable  b. Hip  c. Flat or very low slope		
14.	Exterior wall finish:  a. Stucco b. Panel siding c. Metal siding d. Masonry veneer e. Other, describe	d. Shed e. Other, describe  Roof covering:  a. Asphaltic membrane b. Wood shingle or shake		
15.	Foundation configuration:  a. Slab-on-grade b. Crawlspace without cripple walls c. Crawlspace with cripple walls d. Exposed piers or posts e. Typical f. Metal g. Other, describe	c. Concrete d. Metal e. Elastomeric f. Other, describe		

D.	EXTERIOR BUILDING INSPECTION			
19	. General: (if yes, provide description and photos)	YES	NO	N/A
	a. Collapse, partial collapse, or building off foundation?		$\boxtimes$	
	b. Obvious lean in any story?		$\boxtimes$	
20.	Exterior walls: (if yes, provide description and photos)	П	$\boxtimes$	П
	a. Fresh cracking at corners of door and window openings?      Fresh cracking at building accesses?			
	b. Fresh cracking at building corners?		2-2	
	c. Door or window openings racked out of square?			
	d. Broken glass in windows or doors?		$\boxtimes$	
	e. Wall leaning?			Ш
	f. Bulging or delamination of stucco?		$\boxtimes$	
	g. Pattern of cracking that extends from the ground surface, through foundation, and wall?		$\boxtimes$	
	h. Evidence of recent relative movement at mudsill line?		$\boxtimes$	
	i. At locations where the exterior stucco is continuous from the framing down over the			$\boxtimes$
	foundation, is there cracking of stucco along the mudsill level accompanied by indications			
	of permanent displacement (sliding) of the building relative to the foundation?			
	j. Collapse, partial collapse, or separation of masonry veneer?		$\bowtie$	
	k. Severe cracking, separations, or offsets at building irregularities?		$\boxtimes$	
21.	Foundation: (if yes, provide description and photos)			
	a. Fresh cracking of exposed perimeter foundation?		$\boxtimes$	
	b. Relative movement between slab and footing in "two-pour" slab-on-grade foundations?		$\bowtie$	
	c. Ask homeowner if any earthquake retrofits have been done to the home?			$\boxtimes$
	If Y describe:			
	d. If the answer to c is Y, were bolts added to connect the home to the foundation?		$\boxtimes$	
	e. If the answer to c is Y, were plywood or sheathing added to any cripple walls under the home?		$\boxtimes$	

D.	EXTERIOR BUILDING INSPECTION (continued)			
	22. Kitchen Hook (if yes, provide description and photos)	YES	NO	N/A
	a. Present on external wall?			$\boxtimes$
	b. Present at internal location?			$\boxtimes$
	c. Collapse or partial collapse?			$\boxtimes$
	d. Visible damage or cracking?		X	
	e. Visible tilting or separation from building?		$\boxtimes$	
	f. Shifted or loose and displaced			$\boxtimes$
	g. Deterioration or deformation	14.5		$\boxtimes$
23.	Roof: (if yes, provide description and photos)			
	Shifted or dislodged or concrete damage?		$\boxtimes$	
	b. Impact damage to roof from falling object?		$\boxtimes$	
	c. Displaced rooftop HVAC units?		$\boxtimes$	
	d. Significantly sagging roof ridgelines?		$\boxtimes$	
	e. Signs of movement between rafter tails and wall finishes at eaves?		$\boxtimes$	
	f Buckled/dislodged flashing or tearing of roof membrane, roof/wall intersections in split			×
	level buildings, additions, or other building irregularities?			
	g. Tearing of roof membrane or deck waterproofing at re-entrant corners?		X	
	h. Toppling, shifting, or damage/leakage at refrigerant and electrical lines of rooftop			$\bowtie$
	mechanical equipment?			
	i. Shifting of or damage to solar panels?			$\boxtimes$
1				
				V.

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	Ш		$\boxtimes$
	awnings?		$\boxtimes$	
	b. Evidence of recent settlement or displacement of exterior steps, patios,	L		
	or walkways relative to the building?	П	$\boxtimes$	П
	c. Signs of movement between building floor and/ or exterior hardscape or retaining			
	wall along the uphill side of hon steeply sloping sites?	П		$\boxtimes$
	d. Toppling, shifting, or damage/leakage at refrigerant and electrical lines of			
	air conditioning condenser unit(s)?			
25.	Independent exterior improvements: (if yes, provide description and photos)			
	Damaged detached gazebo?			$\boxtimes$
	b. Damage to fences / privacy walls?	Ш	$\boxtimes$	
	c. Damage to retaining walls?		$\bowtie$	
	d. Damage to walkway?		$\bowtie$	
	e. Evidence of leakage from water supply lines?		$\bowtie$	
	f. Toppling, shifting, or damage/leakage at fuel connection of propane tanks?		$\boxtimes$	
	g. Others damage			$\boxtimes$
E.	INTERIOR INSPECTION			
26.	General information			
	<ul> <li>a. If interior access not possible, identify reason</li> <li>b. Typical wall and ceiling</li> <li>i. Red tag</li> <li>i. Drywall</li> </ul>	finish		
	☐ i. Red tag ☐ ii. Drywall ☐ ii. Plaster on gypsu	m lath		
	☐ iii. Other hazardous condition, ☐ iii. Plaster on wood	lath		
	describe iv. Other, describe	CN	14	
	iv. Other, describe			

E.	INTERIOR INSPECTION (continued)			
27.	Walls: (if yes, provide description and photos)	YES	NO	N/A
	a. Fresh cracking, buckling, spalling, or detachment of interior wall finish at corners of		$\boxtimes$	
	door and window openings?			
	b. Fresh cracking of wall finishes at wall corners or wall/ceiling intersections?		$\boxtimes$	
	c. Door or window openings racked out of square?		$\boxtimes$	
	d. Wall leaning?			
	e. Pattern of cracking that extends from the floor slab through the wall?		$\boxtimes$	
	f. Movement or sliding of walls relative to the floor?		$\bowtie$	
	g. Severe cracking, separations, or offsets at building irregularities?		$\boxtimes$	
	h. Doors damaged, difficult to operate, or inoperable?		$\boxtimes$	
	i. Windows damaged, difficult to operate, or inoperable?		$\boxtimes$	
28.	Ceilings: (if yes, provide description and photos)			
	a. Collapse of ceiling finish?		$\boxtimes$	
	b. Fresh cracking of ceiling finishes, especially at re-entrant corners; cracks along corner		$\boxtimes$	
	bead at stairwell openings; cracking or tearing of finishes at ceiling/wall juncture; or multiple			
	"nail pops"?			
	c. Damage to ceiling finishes in vicinity of corridors or commons places?		$\boxtimes$	
	d. Separations or cracks in ceiling finishes at split-levels, re-entrant corners,		$\boxtimes$	
	additions, appendages, or other building discontinuities?			
	e. Water damage or evidence of recent leakage from plumbing lines or roofing?			$\boxtimes$

E.	INTERIOR INSPECTION (continued)			
29.	Floors: (if yes, provide description and photos)	YES	NO	N/A
	a. Evidence of recent sloping, sagging, settlement or displacement of floors?		$\bowtie$	
	b. In slab-on-grade locations, fresh cracking of floor slab or floor finishes?		$\boxtimes$	
	c. Significant sagging or unusual bounciness of floors frames?		$\boxtimes$	
	d. Separations or cracks in floor finishes at split-levels, re-entrant corners, additions,			$\boxtimes$
	appendages, or other building discontinuities?	<u> anderson en op</u>	(A <u>RA</u>	j <del>a za</del> n
	e. Signs of movement between floor and exterior hardscape or retaining wall along			$\bowtie$
	the uphill side of homes on steeply sloping sites?	<del></del>		_
	f. A pattern of fresh cracks, gaps, or joint separations in floor finishes?			
	g. Impact damage to floor finishes from falling contents?		$\boxtimes$	Ш
			_	
30.	Mechanical systems: (if yes, provide description and photos)	П		
	a. Displaced connection of appliance flues connected to chimneys?			
	b. Toppling, shifting, leakage from tank, leakage from water connections displaced flue			$\bowtie$
	connection or damage/leakage at gas line or electrical connection of water heater?			
	c. Shifting, damage/leakage at gas line, flue connection, electrical connection, refrigerant line,			$\boxtimes$
	and condensate drain connection of furnace or air conditioning fan-coil unit?		$\boxtimes$	
	d. Damage to gas line of gas stoves or gas fueled clothes dryers?	<u>,</u>		<u> </u>
	e. Damage to toilets?		$\boxtimes$	
	f. Decreased or restricted water pressure at appliances, faucets, or toilets?		<b>5</b> 7	
	g. Toppling or shifting of free-standing wood stove and/or flue?		M	
	h. Toppling, shifting, damage/leakage at fuel connection of fuel oil tank?		⊠ ⊠	
	i. Other Damage in the dining room		×	
	j. Damage near the gas tank		⋈	
		Ц	ΙŻ	

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?		$\boxtimes$	
	b. Impact damage to countertops from falling objects?		$\boxtimes$	
	c. Cracking of ceramic tile in showers or tub/shower enclosures consistent with		×	
	earthquake damage to adjacent wall finishes?			
F.	CONTINGENTINSPECTIONS		and the second s	
		YES	NO	N/A
32.	Retaining Tank Wall damage?			$\boxtimes$
33.	Water tank or other field subterranean structure			$\boxtimes$