Company: PDelta Ingenieria Estructural S.A.S **Engineer: Ing. Osvaldo Guzman A**
Project: P046-2024 - PLAZA DOÑA CEIBA (CAMERINOS) **5:30:20 p. m. 26/06/2024**
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PLAN TORSIONAL IRREGULARITY CHECK - NSR-10

	EARTHQUAKE - X				EARTHQUAKE - Y			
Level	Δ/h max	Δ/h avg	max/avg Δ/h	Irregular	Δ/h max	Δ/h avg	max/avg Δ/h	Irregular
2	0.0027	0.0022	1.2250	YES	0.0027	0.0025	1.0722	NO

Torsional irregularity is considered to exist if Δ/h max > 1.2 Δ/h ave
EXTreme torsional irregularity is considered to exist if Δ/h max > 1.4 Δ/h ave

TORSIONAL IREGULARITIES (1aP) EXIST !!!

Notes:
The determination of torsional irregularities (plan structural irregularity type 1) and computation of amplification factors for accidental torsion Ax, is conducted according to FEMA's NEHRP Recommended Provitions for Seismic Regulations for New Buildings and other Structures, Provisions and Commentary ed. 1994, 1997, 2000, 2003, 2009, which is applicable to the following building codes derived from the above documents: (USA) IBC-03/06, ASCE 7-05/10, CBC-01/07, UBC-97, (COLOMBIA) NSR-10, and (PAN) REP-2004,(Dom) R-001, (GUA) NSE

AMPLIFICATION FACTORS ACCIDENTAL TORSION, Ax

	EARTHQUAKE - X				EARTHQUAKE - Y			
Level	δmax	δavg	δmax/δavg	Ax	δmax	δavg	δmax/δavg	Ax
2	0.810	0.661	1.225	1.042	0.822	0.767	1.072	1.000

Displacement units: cm
Ax = [δmax /1.2 δave]² < 3.0