**Company: PDelta Ingenieria Estructural S.A.S** **Engineer: Ing. Osvaldo Guzman A**
**Project: P046-2024 - PLAZA DOÑA CEIBA (CAMERINOS)** **5:29:02 p. m. 26/06/2024**
**File:** C:\Users\USER\OneDrive\PROYECTOS 2024\PROYECTO P-EXTERNOS\P046-2024- PLAZA DOÑA CEIBA- CICUCO\Mode

## MODE - FREQUENCY ANALYSIS

### Mass Matrix Combination (Weight / g)

M = ( D0 + DL ) / g

Total Building Weight: 33.20 ton

### Modal Information: frequency, period, participation factors & generalized mass

| Mode No | Frequency Hz | Period sec | == X-Direction === Part.Fac | GenMass* | == Y-Direction === Part.Fac | GenMass* | == Z-Direction === Part.Fac | GenMass* |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.51 | 0.2220 | 0.00 | 0.00 | -0.18 | 1.00 | 0.00 | 0.00 |
| 2 | 4.80 | 0.2080 | -0.18 | 1.00 | 0.00 | 0.01 | 0.00 | 0.00 |
| 3 | 9.35 | 0.1070 | 0.01 | 1.36 | 0.00 | 1.64 | 0.00 | 0.00 |

* : ton-sec²/m

### Effective Weight and Participating Mass

| Mode No | X - Direction Weff* | %Mass | [%-Sum] | Y - Direction Weff* | %Mass | [%-Sum] | Z - Direction Weff* | %Mass | [%-Sum] |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.00 | 0.00 | [ 0.0] | 33.19 | 99.98 | [100.0] | 0.00 | 0.00 | [ 0.0] |
| 2 | 33.02 | 99.45 | [ 99.5] | 0.00 | 0.00 | [100.0] | 0.00 | 0.00 | [ 0.0] |
| 3 | 0.10 | 0.29 | [ 99.7] | 0.00 | 0.00 | [100.0] | 0.00 | 0.00 | [ 0.0] |

* : ton