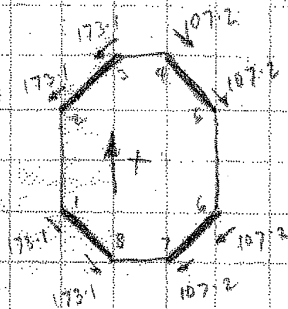


Etabs output Mar 13 15:20:08.

Y direction EQ

Check Ebase shears YEQ static loadcase 3

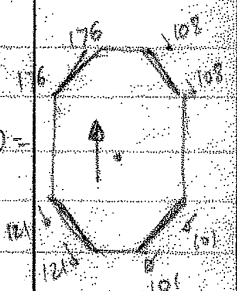
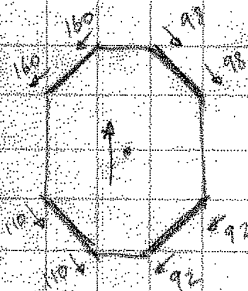
| Column | MAX | MIN |
|--------|--------|-------|
| 1 | 173.1 | 15.7 |
| 2 | 173.1 | 15.7 |
| 3 | 173.1 | 13.2 |
| 4 | 107.2 | 16.5 |
| 5 | 107.2 | 14.0 |
| 6 | 107.2 | 14.0 |
| 7 | 107.2 | 16.5 |
| 8 | 173.1 | 13.2 |
| | 1121.2 | 118.8 |



$1220 \times \sqrt{2} = 876.9 \approx 877.0 \text{ kN}$

Ebase Shear Dynamic x 0.64 (SM) loadcase 6

| Column | MAX | MIN |
|--------|-------|------|
| 1 | 110.0 | 14.2 |
| 2 | 160.0 | 10.5 |
| 3 | 160.1 | 10.2 |
| 4 | 97.9 | 15.0 |
| 5 | 97.9 | 12.3 |
| 6 | 91.5 | 10.1 |
| 7 | 91.5 | 10.8 |
| 8 | 110.0 | 11.5 |
| | 918.9 | 99.6 |



$\times 1.10 =$

$1013.5 \div \sqrt{2} = 716.7$

cf 0.9 static = $0.9 \times 877 = 789.3$

$\therefore K = \text{scale factor for dynamic} = \frac{0.95 \times 789.3}{716.7} = 1.0$