

| Company Info | Project Info |
|--------------------------|---|
| R. C. E. | Project: Foundation Project |
| 3060 Thorntree; Suite 10 | Location: 100 Enterprise Way |
| Chico, CA, 95973 | Mytown, CA 10101 |
| Phone: (530) 894-8833 | Client: Golden Nugget Casino |
| Fax: (530) 894-8882 | Job No.: Job 2002 |
| E-mail: cj@r-c-e.com | Footing Id: F1 Square Footing With Point Loads |

Square footing with simple point loads.

FOUNDATION PARAMETERS

| | |
|---|----------------------------------|
| Concrete Ultimate Compressive Strength, f'c..... | 2.00 ksi |
| Concrete Type..... | HardRock |
| Concrete Cover..... | 3.0 in. |
| Steel Ultimate Strength, Fy..... | 40.0 ksi |
| Column Size..... | 6.00 in. by 6.00 in. |
| Initial Allowable Soil Bearing Strength..... | 1.000 ksf |
| Wind Load Soil Bearing Strength, (1.33 increase)..... | 1.330 ksf |
| Seismic Load Soil Bearing Strength, (1.33 increase)..... | 1.330 ksf |
| Footing Width..... | 4.25 ft. |
| Footing Length..... | 4.25 ft. |
| Footing Depth..... | 12.00 in. |
| Punching Shear Stress..... | 50.69 psi |
| Beam Shear Stress..... | 16.23 psi |
| Reinforcing Standards per..... | ASTM-A615 |
| Longitudinal Bottom Reinforcement Required for Strength..... | .41 in² (3-#4) |
| Transverse Bottom Reinforcement Required for Strength..... | .43 in² (3-#4) |
| Gravity Only Soil Bearing..... | .968 ksf |
| Wind Load Soil Bearing..... | 1.162 ksf |
| Seismic Load Soil Bearing..... | 1.272 ksf |

LOADING PARAMETERS - FACTORED LOAD CASES CONSIDERED:

| | | |
|----------------------------|---------------|--------------------------|
| 1.4DL | 1.4DL + 1.7LL | 1.4DL + 1.7LL + 1.7SL |
| 1.05DL + 1.275LL + 1.275WL | 0.9DL + 1.3WL | 1.05DL + 1.275LL + 1.0EQ |
| 0.9DL + 1.0EQ | | |

UNFACTORED LOADS:

| Load Case | FY, (kips) | MX, (ft-kips) | MZ, (ft-kips) |
|-------------|------------|---------------|---------------|
| Dead Load | 7.50 | 0.00 | 0.00 |
| Live Load | 8.90 | 0.00 | 0.00 |
| Wind Load | 3.50 | 0.00 | 0.00 |
| Earthquake | 5.50 | 0.00 | 0.00 |
| Other Loads | 0.00 | 0.00 | 0.00 |

