

| Beam Decision Matrix | | | | | | | |
|----------------------|---------------|--------------|-----------------------------|--------------|------------------------|-------------|--------------|
| <i>Cross Section</i> | Cost (\$) | Score | <i>Weight of Beam (pcf)</i> | Score | Deflection (E*I value) | Score | Total Score |
| T Beam LW | 218.52 | 1.48 | 6069.18 | 5.17 | 7.04 | 10.00 | 16.65 |
| T Beam NW | 218.52 | 1.48 | 7277.99 | 0.91 | 7.25 | 5.96 | 8.35 |
| I Beam LW | 183.13 | 10.00 | 4697.05 | 10.00 | 7.25 | 6.09 | 26.09 |
| I Beam NW | 183.13 | 10.00 | 5632.58 | 6.71 | 7.46 | 1.97 | 18.68 |
| Hollow Box Beam LW | 224.66 | 0.00 | 6285.22 | 4.41 | 7.35 | 4.06 | 8.47 |
| Hollow Box Beam NW | 224.66 | 0.00 | 7537.07 | 0.00 | 7.57 | 0.00 | 0.00 |