**Financial proposal**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Cost** |  |  |  |  |
| **Material** | **Unit price** | **In Units Of** | **Unit (LB or CF)** | **Material Cost** |
| **Furnish Structural Steel** | **4** | **$ / LB** | **3544486.85** | **$14,177,947.40** |
| **Erect Structural Steel** | **5** | **$ / LB** | **3544486.85** | **$17,722,434.25** |
| **Furnish Cable System** | **4.5** | **$ / LB** | **207903.9609** | **$935,567.82** |
| **Erect Cable System** | **6** | **$ / LB** | **207903.9609** | **$1,247,423.77** |
| **Bar Reinforcement Steel** | **6** | **$ / LB** | **2115725.779** | **$12,694,354.67** |
| **Structural Concrete** | **30** | **$ / CF** | **215890.3856** | **$6,476,711.57** |
|  |  |  |  | **$53,254,439.48** |
|  |  |  |  | **Total Cost** |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Cable** |  |  |  |  |  |  |  |
| **Cable #** | **Length (ft)** | **# of Strands** | **Cable Diameter(mm)** | **Cable diameter (ft)** | **Volume of cable (cubic feet)** | **Density (pcf)** | **Weight (LB)** |
| **1** | **603** | **37** | **109.9** | **0.3605643** | **61.5458267** | **374** | **23018.13919** |
| **2** | **567** | **37** | **109.9** | **0.3605643** | **57.9398202** | **374** | **21669.49275** |
| **3** | **532** | **37** | **109.9** | **0.3605643** | **54.33382177** | **374** | **20320.84934** |
| **4** | **497** | **37** | **109.9** | **0.3605643** | **50.72783315** | **374** | **18972.2096** |
| **5** | **461** | **37** | **109.9** | **0.3605643** | **47.12185658** | **374** | **17623.57436** |
| **6** | **426** | **37** | **109.9** | **0.3605643** | **43.51589506** | **374** | **16274.94475** |
| **7** | **391** | **37** | **109.9** | **0.3605643** | **39.90995266** | **374** | **14926.32229** |
| **8** | **356** | **37** | **109.9** | **0.3605643** | **36.30403509** | **374** | **13577.70912** |
| **9** | **320** | **37** | **109.9** | **0.3605643** | **32.69815055** | **374** | **12229.10831** |
| **10** | **285** | **37** | **109.9** | **0.3605643** | **29.09231135** | **374** | **10880.52444** |
| **11** | **250** | **37** | **109.9** | **0.3605643** | **25.4865367** | **374** | **9531.964725** |
| **12** | **214** | **37** | **109.9** | **0.3605643** | **21.88085853** | **374** | **8183.441089** |
| **13** | **179** | **37** | **109.9** | **0.3605643** | **18.27533394** | **374** | **6834.974894** |
| **14** | **144** | **37** | **109.9** | **0.3605643** | **14.67007618** | **374** | **5486.608491** |
| **15** | **108** | **37** | **109.9** | **0.3605643** | **11.06534605** | **374** | **4138.439423** |
| **16** | **73** | **37** | **109.9** | **0.3605643** | **7.461908268** | **374** | **2790.753692** |
| **17** | **38** | **37** | **109.9** | **0.3605643** | **3.863380707** | **374** | **1444.904384** |
| **18** | **235** | **127** | **204.1** | **0.6696194** | **82.75865648** | **374** | **30951.73752** |
| **19** | **194.5** | **127** | **204.1** | **0.6696194** | **68.4959944** | **374** | **25617.50191** |
| **20** | **154** | **127** | **204.1** | **0.6696194** | **54.23333233** | **374** | **20283.26629** |
| **21** | **113** | **127** | **204.1** | **0.6696194** | **39.79458801** | **374** | **14883.17592** |
| **22** | **72.5** | **127** | **204.1** | **0.6696194** | **25.53192593** | **374** | **9548.9403** |
|  |  |  |  |  |  |  | **309188.5828** |
|  |  |  |  |  |  |  | **Total Cost** |

|  |  |  |  |
| --- | --- | --- | --- |
| **Deck Materials** |  |  |  |
|  |  |  | **Total Self Weight(kip)** |
| **Deck** | **8" Slab** | **Concrete** | **4462.5** |
| **Deck** | **Pavement , needs data** |  |  |
| **Deck** | **Stringers** | **Steel W30x 391** | **1055.7** |
| **Note A on dwg** | **Girder Type 1** | **Built-up: 18x4 flange, 3 x 32 web** | **1298.08685** |
| **Note B on dwg** | **Girder Type 2 (Not Used)** | **Steel W30x261** | **0** |
| **Deck** | **Bottom Deck (Not Used)** | **Steel 40 in x 40 in x 2.5 in** | **0** |
| **Note C on dwg** | **Edge Girder** | **Box Steel HSS 5 x 4.5 x 0.75 in** | **1190.7** |

|  |  |  |
| --- | --- | --- |
| **Tower Materials** |  |  |
| **Tower diameter 1** | **3** | **ft** |
| **Tower diameter 2** | **18** | **ft** |
| **Tower Height** | **228** | **ft** |
| **Tower Volume** | **92400.44508** | **ft^3** |
| **Two Towers** | **184800.8902** | **ft^3** |
| **Tower beam 1** | **689.1863063** | **ft^3** |
| **Tower beam 2** | **650.30913** | **ft^3** |