



NOTE: THE REINFORCING STEEL QUANTITIES FOR THE CAP AND COLUMN ARE TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.

NOTE: THE CONCRETE QUANTITIES FOR THE CAP AND COLUMN ARE TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.

CAP

| REINFORCING STEEL | ABUT. BEARINGS | 138'-10 | | 151'-4 | | 163'-10 | | 176'-4 | | 188'-10 | | 201'-4 | | 213'-10 | | 226'-4 | | 243'-0 | |
|--------------------------|----------------|---------|-------------|--------|-------------|---------|-------------|--------|-------------|---------|-------------|--------|-------------|---------|-------------|--------|-------------|--------|-------------|
| | | NO. | SIZE WEIGHT | NO. | SIZE WEIGHT | NO. | SIZE WEIGHT | NO. | SIZE WEIGHT | NO. | SIZE WEIGHT | NO. | SIZE WEIGHT | NO. | SIZE WEIGHT | NO. | SIZE WEIGHT | NO. | SIZE WEIGHT |
| a1 | 42'-8 | 6 | 9 870 | 6 | 9 870 | 6 | 10 1102 | 6 | 10 1102 | 6 | 10 1102 | 6 | 10 1102 | 6 | 11 1360 | 6 | 11 1360 | 6 | 11 1360 |
| a2 | 42'-8 | 6 | 9 870 | 6 | 9 870 | 6 | 9 870 | 6 | 9 870 | 6 | 9 870 | 6 | 10 1102 | 6 | 10 1102 | 6 | 10 1102 | 6 | 11 1360 |
| 6a3 | 42'-8 | 6 | 6 385 | 6 | 6 385 | 6 | 6 385 | 6 | 6 385 | 6 | 6 385 | 6 | 6 385 | 6 | 6 385 | 6 | 6 385 | 6 | 6 385 |
| 6a4 | VARIES | 6 | 6 298 | 6 | 6 298 | 6 | 6 298 | 6 | 6 298 | 6 | 6 298 | 6 | 6 298 | 6 | 6 298 | 6 | 6 298 | 6 | 6 298 |
| 8b1 | 22'-9 | 8 | 8 486 | 8 | 8 486 | 8 | 8 486 | 8 | 8 486 | 8 | 8 486 | 8 | 8 486 | 8 | 8 486 | 8 | 8 486 | 8 | 8 486 |
| 5c1 | 17'-0 | 26 | 5 461 | 26 | 5 461 | 26 | 5 461 | 26 | 5 461 | 26 | 5 461 | 26 | 5 461 | 26 | 5 461 | 26 | 5 461 | 26 | 5 461 |
| 5c2 | VARIES | 16 | 5 269 | 16 | 5 269 | 16 | 5 269 | 16 | 5 269 | 16 | 5 269 | 16 | 5 336 | 20 | 5 336 | 20 | 5 336 | 28 | 5 471 |
| 5c3 | VARIES | 36 | 5 496 | 36 | 5 496 | 36 | 5 496 | 36 | 5 496 | 36 | 5 496 | 36 | 5 496 | 36 | 5 496 | 36 | 5 496 | 36 | 5 496 |
| 5c4 | 6'-8 | 16 | 5 111 | 16 | 5 111 | 16 | 5 111 | 16 | 5 111 | 16 | 5 111 | 16 | 5 111 | 16 | 5 111 | 16 | 5 111 | 16 | 5 111 |
| TOTAL (LB.) | | 4246 | | 4246 | | 4478 | | 4478 | | 4478 | | 4777 | | 5035 | | 5035 | | 5428 | |
| STRUCTURAL CONCRETE (CY) | | 29.5 | | 29.5 | | 29.5 | | 29.5 | | 29.5 | | 29.5 | | 29.5 | | 29.5 | | 29.5 | |

COLUMN

| H IN FEET | COLUMN HEIGHT | STRUCTURAL CONCRETE (CY) | REINFORCING STEEL | | | | | | | | | TOTAL WEIGHT (LB.) | | | |
|-----------|---------------|--------------------------|-------------------|------|--------|---------|-----|------|---------|--------|-----|--------------------|--------|--------|------|
| | | | d1 BAR | | | 4e1 BAR | | | 4e2 BAR | | | | | | |
| | | | NO. | SIZE | LENGTH | WEIGHT | NO. | SIZE | LENGTH | WEIGHT | NO. | SIZE | LENGTH | WEIGHT | |
| 16 | 6'-0 | 9.7 | 46 | 9 | 8'-9 | 1369 | 14 | 4 | 11'-11 | 111 | 28 | 4 | 13'-10 | 259 | 1739 |
| 17 | 7'-0 | 11.3 | 46 | 9 | 9'-9 | 1525 | 16 | 4 | 11'-11 | 127 | 32 | 4 | 13'-10 | 296 | 1948 |
| 18 | 8'-0 | 12.9 | 46 | 9 | 10'-9 | 1681 | 18 | 4 | 11'-11 | 143 | 36 | 4 | 13'-10 | 333 | 2157 |
| 19 | 9'-0 | 14.6 | 46 | 9 | 11'-9 | 1838 | 20 | 4 | 11'-11 | 159 | 40 | 4 | 13'-10 | 370 | 2367 |
| 20 | 10'-0 | 16.2 | 46 | 9 | 12'-9 | 1994 | 22 | 4 | 11'-11 | 175 | 44 | 4 | 13'-10 | 407 | 2576 |
| 21 | 11'-0 | 17.8 | 46 | 9 | 13'-9 | 2151 | 24 | 4 | 11'-11 | 191 | 48 | 4 | 13'-10 | 444 | 2786 |
| 22 | 12'-0 | 19.4 | 46 | 9 | 14'-9 | 2307 | 26 | 4 | 11'-11 | 207 | 52 | 4 | 13'-10 | 481 | 2995 |
| 23 | 13'-0 | 21.0 | 46 | 9 | 15'-9 | 2463 | 28 | 4 | 11'-11 | 223 | 56 | 4 | 13'-10 | 517 | 3203 |
| 24 | 14'-0 | 22.6 | 46 | 9 | 16'-9 | 2620 | 30 | 4 | 11'-11 | 239 | 60 | 4 | 13'-10 | 554 | 3413 |
| 25 | 14'-6 | 23.4 | 46 | 9 | 17'-3 | 2698 | 30 | 4 | 11'-11 | 239 | 60 | 4 | 13'-10 | 554 | 3491 |
| 26 | 15'-6 | 25.1 | 46 | 9 | 18'-3 | 2854 | 32 | 4 | 11'-11 | 255 | 64 | 4 | 13'-10 | 591 | 3700 |
| 27 | 16'-6 | 26.7 | 46 | 9 | 19'-3 | 3011 | 34 | 4 | 11'-11 | 271 | 68 | 4 | 13'-10 | 628 | 3910 |
| 28 | 17'-6 | 28.3 | 46 | 9 | 20'-3 | 3167 | 36 | 4 | 11'-11 | 287 | 72 | 4 | 13'-10 | 665 | 4119 |
| 29 | 18'-6 | 29.9 | 46 | 9 | 21'-3 | 3324 | 38 | 4 | 11'-11 | 302 | 76 | 4 | 13'-10 | 702 | 4328 |
| 30 | 19'-6 | 31.5 | 46 | 9 | 22'-3 | 3480 | 40 | 4 | 11'-11 | 318 | 80 | 4 | 13'-10 | 739 | 4537 |
| 31 | 20'-6 | 33.1 | 46 | 9 | 23'-3 | 3636 | 42 | 4 | 11'-11 | 334 | 84 | 4 | 13'-10 | 776 | 4746 |
| 32 | 21'-6 | 34.8 | 46 | 9 | 24'-3 | 3793 | 44 | 4 | 11'-11 | 350 | 88 | 4 | 13'-10 | 813 | 4956 |
| 33 | 22'-6 | 36.4 | 46 | 9 | 25'-3 | 3949 | 46 | 4 | 11'-11 | 366 | 92 | 4 | 13'-10 | 850 | 5165 |
| 34 | 23'-6 | 38.0 | 46 | 9 | 26'-3 | 4106 | 48 | 4 | 11'-11 | 382 | 96 | 4 | 13'-10 | 887 | 5375 |
| 35 | 24'-6 | 39.6 | 46 | 9 | 27'-3 | 4262 | 50 | 4 | 11'-11 | 398 | 100 | 4 | 13'-10 | 924 | 5584 |
| 36 | 25'-6 | 41.2 | 46 | 9 | 28'-3 | 4418 | 52 | 4 | 11'-11 | 414 | 104 | 4 | 13'-10 | 961 | 5793 |
| 37 | 26'-6 | 42.9 | 46 | 9 | 29'-3 | 4575 | 54 | 4 | 11'-11 | 430 | 108 | 4 | 13'-10 | 998 | 6003 |
| 38 | 27'-6 | 44.5 | 46 | 9 | 30'-3 | 4731 | 56 | 4 | 11'-11 | 446 | 112 | 4 | 13'-10 | 1035 | 6212 |
| 39 | 28'-6 | 46.1 | 46 | 9 | 31'-3 | 4888 | 58 | 4 | 11'-11 | 462 | 116 | 4 | 13'-10 | 1072 | 6422 |
| 40 | 29'-6 | 47.7 | 46 | 9 | 32'-3 | 5044 | 60 | 4 | 11'-11 | 478 | 120 | 4 | 13'-10 | 1109 | 6631 |

SEE SHEET H40-17-14 FOR STEP REINFORCING STEEL QUANTITIES AND DETAILS.

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| LATEST REVISION DATE | APPROVED BY BRIDGE ENGINEER | STANDARD DESIGN - 40' ROADWAY, THREE SPAN BRIDGE PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES SEPTEMBER, 2014 |
| TEE PIER CAP AND COLUMN 15° SKEW | | H40-66-14 |