**PORTLAND CEMENT CONCRETE PRODUCTION AND DELIVERY:**

|  |  |  |
| --- | --- | --- |
| (9-15-20) | 1000, 1014, 1024 | SP10 R01 |

Revise the *2018* *Standard Specifications* as follows:

**Page 10-6, Table 1000-1, REQUIREMENTS FOR CONCRETE**, replace with the following:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **TABLE 1000-1 REQUIREMENTS FOR CONCRETE** | | | | | | | | | | | | |
| **Class of**  **Concrete** | **Min. Compressive Strength at 28 days** | **Maximum Water-Cement Ratio** | | | | **Consistency Maximum Slump** | | **Cement Content** | | | | |
| **Air-Entrained Concrete** | | **Non-Air-Entrained Concrete** | | **Vibrated** | **Non-Vibrated** | **Vibrated** | | **Non-Vibrated** | | |
| Rounded Aggregate | Angular Aggregate | Rounded Aggregate | Angular Aggregate |
| Min. | Max. | Min. | Max. | |
| *Units* | *psi* |  |  |  |  | *inch* | *inch* | *lb/cy* | *lb/cy* | *lb/cy* | | *lb/cy* |
| AA | 4500 | 0.381 | 0.426 | --- | --- | 3.5**A** | --- | 639 | 715 | --- | | --- |
| AA Slip Form | 4500 | 0.381 | 0.426 | --- | --- | 1.5 | --- | 639 | 715 | --- | | --- |
| Drilled Pier | 4500 | --- | --- | 0.450 | 0.450 | --- | 5 – 7  dry  7 - 9  wet | --- | --- | 640 | | 800 |
| A | 3000 | 0.488 | 0.532 | 0.550 | 0.594 | 3.5 **A** | 4.0 | 564 | --- | 602 | | --- |
| B | 2500 | 0.488 | 0.567 | 0.559 | 0.630 | 1.5  machine placed  2.5 **A**  hand placed | 4.0 | 508 | --- | 545 | | --- |
| Sand Light-weight | 4500 | --- | 0.420 | --- | --- | 4.0 **A** | --- | 715 | --- | --- | | --- |
| Latex Modified | 3000  (at 7 days) | 0.400 | 0.400 | --- | --- | 6.0 | --- | 658 | --- | --- | | --- |
| Flowable Fill excavatable | 150  max.  (at 56 days) | as needed | as needed | as needed | as needed | --- | Flowable | --- | --- | 40 | | 100 |
| Flowable Fill  non-excavatable | 125 | as needed | as needed | as needed | as needed | --- | Flowable | --- | --- | 100 | | as needed |
| Pavement | 4500  Design, field  650  flexural, design only | 0.559 | 0.559 | --- | --- | 1.5  slip form  3.0  hand placed | --- | 526 | --- | --- | | --- |
| Precast | See Table 1077-1 | as needed | as needed | --- | --- | 6.0 | as needed | as needed | as needed | as needed | | as needed |
| Prestressed | per contract | See Table 1078-1 | See Table 1078-1 | --- | --- | 8.0 | --- | 564 | as needed | --- | | --- |

1. The slump may be increased to 6 inches, provided the increase in slump is achieved by adding a chemical admixture conforming to Section 1024-3. In no case shall the water-cement ratio on the approved design be exceeded. Concrete exhibiting segregation and/or excessive bleeding will be rejected. Utilizing an Admixture to modify slump does not relinquish the contractor’s responsibility to ensure the final product quality and overall configuration meets design specifications. Caution should be taken when placing these modified mixes on steep grades to prevent unintended changes to the set slope.