

## DIVISION 700 - MATERIALS

## SECTION 701 - HYDRAULIC CEMENT

701.01 Portland Cement. Portland cement shall be either Type I or Type IP. |

Type I portland cement shall conform to Type I cement in AASHTO M 85. |  
The twenty-eight (28) day strength requirement cited in Table 2A shall apply. \*|

Type IP cement shall conform to Type IP cement in ASTM C 595. Type IP |  
cement includes an intimate mixture of Type I cement and not more than twenty |  
(20) percent of a pozzolanic material. |

The Contractor may use mineral admixtures to replace a portion of the \*|  
required portland cement according to Subsection 711.03 - Admixtures. \*|

Cement used in the manufacture of cast-in-place concrete for exposed |  
surfaces of like elements of a structure shall be from the same mill. |

The Contractor shall protect the cement from exposure to moisture until \*|  
used. The Contractor shall pile sacked cement to permit access for tally, \*|  
inspection, and identification of each shipment. |

The Contractor shall provide adequate facilities to assure that cement \*|  
conforms to the the contract. The Contractor shall keep that cement separate \*|  
from other cement. The Contractor shall arrange with said supplier to |  
provide safe and suitable facilities for sampling cement. \*|

The Contractor shall submit a certificate of compliance to the Engineer \*|  
before the use of that cement. The certificate of compliance shall state that \*|  
the cement for the work complies with the contract. The certificate of \*|  
compliance shall include pertinent information as to type of cement, brand, \*|  
manufacturing mill in which the Contractor shall use the product. The cement \*|  
manufacturer shall sign the certificate of compliance. \*|

Upon receipt of the certificate of compliance, the Engineer may permit \*|  
the use of cement before release by the laboratory. The Contractor shall not \*|  
use the cement furnished without a certificate of compliance in the work. \*|  
Also, the Contractor shall not use the cement until the Department has had \*|  
sufficient time to make appropriate tests and has accepted the cement for  
use.

If the cement does not conform to the contract as resolved by laboratory \*|  
test samples, the Contractor shall delay the subsequent use of cement from \*|  
the same company if required, until the Department can make tests on each lot \*|  
of cement delivered. |