

GENERAL NOTES

CLASS S CONCRETE, AS PER PLAN (CONTD.)

TYPE A OR D CHEMICAL ADMIXTURE CONFORMING TO 705.12 ASTM - C494 SHALL BE ADDED TO THE CONCRETE AT THE PLANT.

ALL ADDITIVES, INCLUDING AIR ENTRAINMENT, SHALL BE CERTIFIED AS COMPATIBLE BY THE MANUFACTURING COMPANIES. THE MANUFACTURER OF THE SUPERPLASTICIZER OR HIGH RANGE WATER REDUCER SET RETARDER SHALL FURTHER DESIGNATE A TECHNICAL REPRESENTATIVE FROM THE READY-MIX SUPPLIER OR HIS COMPANY TO BE IN CHARGE OF DISPENSING THE ADMIXTURE PRODUCTS. OPERATIONS AND PROCEDURES WHICH ARE CONSIDERED BY THE DESIGNATED REPRESENTATIVE TO BE DETRIMENTAL TO THE INTEGRITY OF THE CONCRETE WILL NOT BE PERMITTED.

THE CEMENT CONTENT SHALL BE MAINTAINED AND THE MAXIMUM WATER-CEMENT RATIO SHALL NOT BE EXCEEDED. THE SUPERPLASTICIZER ADMIXTURE SHALL BE ADDED AND MIXED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION. THE CONTRACTOR SHALL FURNISH A VOLUMETRIC DISPENSER FOR THE SUPERPLASTICIZER OR HAVE A GAUGE ON EACH CONCRETE TRUCK PLASTICIZER TANK. EACH TRUCK DRUM SHALL BE REVERSED AT THE CONCRETE PLANT BEFORE BEING LOADED TO REMOVE ALL WASH WATER. THIS SHALL BE VERIFIED BY THE INSPECTOR.

THE SUPERPLASTICIZER SHALL NOT BE ALLOWED TO COME INTO CONTACT WITH UNHYDRATED CEMENT. SUFFICIENT TYPE A OR D ADMIXTURE SHALL BE ADDED TO THE MIX TO PROVIDE FOR THE THOROUGH WETTING OF THE CEMENT PRIOR TO ADDING THE SUPERPLASTICIZER. THIS MIX SHALL BE MIXED FOR APPROXIMATELY ONE HALF OF THE TOTAL MIXING TIME PRIOR TO ADDING THE SUPERPLASTICIZER.

IF THE SUPERPLASTICIZER IS ADDED AT THE JOB SITE, THE LOAD SHALL BE MIXED A MINIMUM OF 5 MINUTES AT MIXING SPEED.

IF SLUMP LOSS OCCURS BEFORE PLACEMENT OF THE CONCRETE, THE CONCRETE MAY BE "RE-PLASTICIZED" WITH THE ADMIXTURE TO RESTORE PLASTICITY. THE SLUMP RANGE AND AIR CONTENT SHALL BE RECHECKED TO ENSURE CONFORMANCE TO THE ALLOWABLE VALUES. IF THE CONSISTENCY OF THE CHARGE AFTER "RE-PLASTICIZED" IS SUCH AS TO CAUSE SEGREGATION OF THE COMPONENTS, THIS WILL BE CAUSE FOR REJECTION OF THE LOAD. THE WATER ONLY SLUMP SHALL NOT EXCEED 4 INCHES.

CLASS S CONCRETE, AS PER PLAN (CONTD.)

THE CONTRACTOR SHALL MAKE ALL TESTS NECESSARY TO INSURE CONFORMANCE WITH THESE SPECIFICATIONS PRIOR TO PLACEMENT OF THE CONCRETE.

ALL INITIAL TESTS AT THE PLANT AND IN THE FIELD SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THESE TESTS SHALL BE PERFORMED BY A CERTIFIED CONCRETE TECHNICIAN. THIS INFORMATION SHALL BE MADE AVAILABLE TO THE ENGINEER DURING THE CONCRETE PRODUCTION AND DOCUMENTED AND SUBMITTED IN WRITING TO THE PROJECT ENGINEER AFTER THE CONCRETE PLACEMENT. THIS PROCEDURE SHALL BE CONDUCTED ON THE FIRST FEW LOADS OF THE CONCRETE AND THE FIRST FEW LOADS OF THE CONCRETE AT ANY TIME A MIX ADJUSTMENT IS MADE OR DELIVERY METHOD CHANGED. THE PROJECT ENGINEER SHALL MAKE ONLY THE FINAL TESTS AS THE CONCRETE IS PLACED.

SAMPLING AND TESTING FOR ENTRAINED AIR CONTENT AND SLUMP SHALL BE TAKEN FROM THE CONCRETE AT THE POINT OF PLACEMENT.

PUBLIC SAFETY

BEFORE WORK BEGINS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER THE NAMES AND TELEPHONE NUMBERS OF PERSONS WHO CAN BE CONTACTED 24 HOURS A DAY BY THE OHIO DEPARTMENT OF TRANSPORTATION AND ALL INTERESTED POLICE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING OR REPLACING NECESSARY CONTROL DEVICES TO SAFELY MAINTAIN TRAFFIC.

NO HAZARD SHALL BE LEFT UNPROTECTED EXCEPT FOR THE ACTUAL TIME NECESSARY TO REMOVE, GRADE AND INSTALL GUARDRAIL IN A CONTINUOUS OPERATION. THE REMOVAL OF ALL GUARDRAIL SHALL AT ALL TIMES BE AS DIRECTED BY THE ENGINEER. NO GUARDRAIL SHALL BE REMOVED UNTIL THE REPLACEMENT MATERIAL IS ON THE SITE AND READY FOR INSTALLATION. MATERIAL SHALL NOT BE STORED AT THE WORKSITES. INSTALLATION OF THE NEW RAIL SHALL BEGIN IMMEDIATELY AFTER THE REMOVAL OPERATION TAKES PLACE. NEW RAIL SHALL BE ERECTED WITHIN 24 HOURS. FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE DEEMED SUFFICIENT CAUSE TO ORDER WORK SUSPENDED ON THIS PROJECT UNTIL SUCH TIME THAT THE ENGINEER IS ASSURED OF COMPLIANCE.

THE EXCEPTION TO THE ABOVE REQUIREMENTS FOR GUARDRAIL WOULD BE WHEN THE PORTABLE CONCRETE BARRIER IS IN PLACE.

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