SS 898 QC/QA Concrete for Structures

1. Specification:

Supplemental Specification 898

AASHTO T277

ACI 301

2. Materials:

SS 898.03

Mix Design - To be proportioned by the contractor according to SS898.05. The design strength to be according to ACI 301. Limitations and performance requirements are in SS898.05.

3. Sampling and/or Inspection Requirements:

Contractor Responsibilities:

- Provide a mix design, tested by an AASHTO accredited lab that meets the requirements of SS 898.05 at least 10 days prior to placement.
- Submit a Quality Control Plan at least 10 days prior to placement.
- Test air and slump the first 3 loads; then every 5th load once mix is consistent. Sample from point of discharge.
- Make strength and permeability samples for each 50 yd³ sublot, and field strength samples when needed.
- Have the cylinders tested by an certified lab and report results.

ODOT Responsibilities:

- Engineer to determine if the mix proposed for use meets the requirements of the plans and if a JMF number is associated with the mix design provided by the contractor. If a JMF does not exist, submit the mix design to OMM - Cement & Concrete Section for approval.
- Review the Quality Control Plan for adequacy, 898.09.
- Test one of the first 3 loads tested by the contractor for air and slump and compare with results obtained by the contractor to insure that they are within specification limits, 898.11.
- Make 4 concrete cylinders from the same load as one QC sample for every 10 QC samples taken by the contractor.
- Evaluate QC results, compare QA results with each other and the corresponding QC results for conformance to 898.11.
- Determine pay factor.

4. Method of Test:

ASTM C 31, 39, 143, 172, 173, 231 and AASHTO T277 (modified, 898.05)