Concrete Quality Control Responsibilities

I. Minimum Personnel Requirements

A. Quality Control Officer: (Q.C.O.)

B. Quality Control Technician-Plant (Q.C.T.P.)
   1. Recommended minimum 2 required

C. Quality Control Technicians (Q.C.T.)
   1. Recommended minimum 4 Technicians

D. Quality Control Technician-Lab (Q.C.T.L.)
   1. Recommended minimum 2 required

II. Personnel Responsibilities/Duties

A. Q.C.O.
   1. Coordinate and oversee Quality Control (Q.C.)
      
      a. Supervising Plant Q.C. Operations
         1. Review the testing procedures and work of Q.C.T.P.
         2. Review ongoing Q.C. test results daily
         3. Assure that Q.A.E. receives all required test results
         4. Train Q.C. personnel assigned to the plant
         5. Review control charts and take appropriate action.

      b. Supervising Q.C.T. (at Paver)
         1. Train Q.C. Personnel at paver
         2. Observe sampling, preparation of beams and cylinders, and testing on an ongoing basis.
         3. Assure proper equipment is on hand and in good working order
         4. Works with Q.A.E. to resolve failing test-make adjustments, etc.
c. Supervise Q.C.T.L.
   1. Train Q.C. personnel assigned to lab
   2. Monitor daily the daily duties of the Q.C.T.L. as defined herein

2. Review beam break test data and keep contractor informed.

B. Q.C.T.P.

1. Provide Q.C. inspection and testing at the plant
   a. Inspect construction of stockpile
      1. Three foot layers
      2. Location of stockpiles
      3. Loading out from stockpiles
   b. Sampling and Testing
      1. Gradation
      2. Moisture
   c. Proportioning (in accordance w/IDOA Procedures and Policy Memo 87-3)
      1. Determine batch weights based on moisture
      2. Give all changes in batch weights to weigh man in writing
      3. Perform mix verification
      4. Maintain Quality Control Charts
      5. Perform slump and air tests
      6. Fill out Forms: M-6, M-7 and M-4, daily

C. Q.C.T. (At Paver)

1. Sample and Prepare test specimens at paver
   a. Perform testing per sublot
      1. Slump
      2. Air
      3. Temperature
   b. Sample and Prepare test specimens
      1. Cast beams and cylinders (when required)
      2. Onsite curing of beams-wet burlap or beam covers
2. Inform Q.A.T.P. of FAILING TESTS

D. Q.C.T.L.

1. Transport test specimens
   a. Paver to curing facilities
   b. Curing to test machines

2. Mark test specimens per attached ticket

3. Clean and maintain beam boxes
Sample Frequency/Testing

**Start-Up**

1. **Plant**
   a. Aggregate Stock Piles & PCC Mixture
      1. Gradation (4) four/day/agg
      2. Moisture (1) one/hour/agg
      3. Slump, air, temp (8) eight/day
      4. 

2. **Paver**
   a. Slump as needed—one/sublot
   b. Air as needed—one/sublot
   c. Temp as needed—one/sublot
   d. Beams—eight/sublot
   e. Cylinders

**Ongoing Construction**

1. **Plant**
   a. Stockpiles
      1. Gradation (2) two/day or as needed
      2. Moisture (4) four/day or as needed
      3. Slump, air, temp (4) four/day or as needed

2. **Paver**
   a. Slump, Air, Temp (1) one/sublot (minimum)
   b. Beams (8) eight/sublot
   c. Cylinders as needed