

# Annual Inspection Checklist for Certification Paperwork

ALL CERTS MUST BE WITHIN 1 YEAR

1. **Aggregates:** Look at and check against bulletin!

Check our approved list or neighboring states list (M-93)

a) Coarse Aggregate must meet AASHTO # 57'S, #67'S, (#5'S , #7'S)

\_\_\_ A.S.R. cert. must meet < .10 per MSMT 212 (MD STANDARDS & SPEC. 902.10.03)

\_\_\_ Or mitigate with fly-ash

\_\_\_ On our Aggregate Bulletin?

b) Fine Aggregate Concrete sand or Manufactured stone sand

\_\_\_ On our Aggregate Bulletin?

\_\_\_ Meeting AASHTO M-6 or ASTM C-33

\_\_\_ A.S.R. Cert must read: < .10 per MSMT 212 (MD STANDARDS & SPEC. 902.10.03)

\_\_\_ Or mitigate with fly-ash

2. \_\_\_ **Cement:** Must meet AASHTO M85 / ASTM C150

\_\_\_ **Slag:** Must meet AASHTO M302 grade 120 or 100 / ASTM C 494

\_\_\_ **Fly Ash Type F:** Must meet AASHTO M295 / ASTM C618-05

3. **Admixtures:** Check approved list

\_\_\_ Meets AASHTO M154 & M194 / ASTM C494

\_\_\_ Contain less than 200 p.p.m. chlorides (MD STANDARDS & SPEC. 902.06)

4. **Reinforcing Steel**

\_\_\_ is on Approved List

\_\_\_ AASHTO M31 / ASTM A615, Grade 60 (rebar)

\_\_\_ Manufacturer's certification statement

\_\_\_ Welded Steel Wire Fabric AASHTO M55 / ASTM 185

\_\_\_ Welded deformed Steel Wire Fabric AASHTO M221 / ASTM A497

\_\_\_ Cold Drawn Steel Wire AASHTO M32 / ASTM A82

\_\_\_ Stress Relieved Strand M203 Grade 270 / ASTM A416

# Annual Inspection Checklist for Certification Paperwork

## Concrete Mix Design Check List

\_\_\_ 1. Minimum cement factor for **Mix #6** of  $\geq 615$  lbs. (MD STANDARDS 902.10.03)  
**Pipe  $\geq 470$ lbs (ASTM C76 6.1)**\_\_\_\_\_ **Prestressed  $\geq 700$ lbs**\_\_\_\_\_

\_\_\_ 2. Coarse and fine aggregate proportioning looks ok?

Approximately **2000 lbs** for coarse aggregate, **1000 lbs** for fine aggregate

Proportioning should be **3 parts stone, 2 parts sand, 1 part cement** and water weight

Should be less than  $\frac{1}{2}$  cement weight, according to ACI. The total weight of these

**4** main ingredients should always be about **4000 lbs.** for **1 cu. Yd.**

**WCR** for Mix # 6: **.45** maximum (MD STANDARDS & SPEC. **902.10.03**)

\_\_\_ 3. A recent trial batch to demonstrate acceptable compressive strength or #4 (below)

\_\_\_ 4. A consistent history of satisfactory compressive strength.\_\_\_\_\_

\_\_\_ 5. Our comparison check on compressive strengths. \_\_\_\_\_

\_\_\_ 6. Typical early age **24 hr. breaks** \_\_\_\_\_

Should be about **2000** or **3000** psi, depending on type of cement curing

Technique and temperature conditions. **4000** or **5000** for Prestressed

\_\_\_ 7. Typical trial batch acceptance:  $5000 + 1200 = 6200$  @ 28 days.

Actual @ 28 days = \_\_\_\_\_