READY TO INSPECT — FIELD CHECKLIST

Cast-in-place concrete special inspection checklist

Once concrete is placed, the reinforcement and the mix behind it are unverifiable. The independent inspector confirms the steel, witnesses the sampling, and records the placement while everything is still visible.

Who runs it: A third-party or owner's-rep special inspector for concrete, with the placing crew and the testing lab. When: Before the pour (reinforcement and embeds), at delivery (mix verification and sampling), and during placement and curing.

Reinforcement and embeds

- [ ] Bar size, grade, spacing and lap lengths match the approved drawings
  Placement checked against the reinforcement drawings before forms are closed.
  3 photos required
- [ ] Concrete cover and support verified
  Chairs and spacers maintain the specified cover; a tape photographed at cover.
  2 photos required
- [ ] Embeds, anchor bolts and openings located and secured
  Position and projection confirmed against the plan; nothing loose before the pour.
  2 photos required
- [ ] Rebar bundle tags trace to the approved grade and mill reports
  Heat and grade on the bundle tags match the approved shop drawings and the mill test reports on file.
  1 photo required
- [ ] Formwork shape, location and dimensions checked before the pour
  Member size and location match the drawings; forms clean of debris, ice and standing water at placement.
  1 photo required

Mix and sampling

- [ ] Delivery ticket matches the approved mix design
  Mix identification, water added and elapsed time checked on the ticket.
  1 photo required
- [ ] Fresh-concrete tests and specimen sets witnessed
  Slump, temperature, air and specimen casting performed and witnessed at the specified frequency.
  2 photos required
- [ ] Specimens labeled and protected for initial curing on site
  Cylinders marked with the placement location and set in a curing box or protected spot away from traffic, sun and frost.
  1 photo required
- [ ] Out-of-spec loads reported to the contractor before discharge
  Slump, temperature, mix or elapsed time outside the approved limits noted with the ticket number and reported to the placing foreman before the load goes in; the outcome recorded.
  No photo required

Placement and curing

- [ ] Placement, consolidation and cold-joint control observed
  No segregation; consolidation and lift sequence appropriate for the element.
  2 photos required
- [ ] Curing and protection started and maintained as specified
  Curing method in place promptly; protection appropriate to the conditions.
  1 photo required
- [ ] Placement-day weather checked against the approved plan
  Air temperature, wind and forecast noted at the start of placement; when they trigger it, the hot- or cold-weather measures the approved plan calls for are in place.
  No photo required

Discrepancies and reporting

- [ ] Results missing the acceptance criteria sent to the EOR and AHJ
  Strength or fresh-concrete results outside the specified values reported with the element and pour location they represent, so the engineer of record can direct any follow-up.
  No photo required
- [ ] Placement report ties tickets, tests and element location together
  Each report lists the element, volume, ticket numbers and specimen sets, plus weather, delays or cold joints noted during the pour, as the statement of special inspections requires.
  No photo required