READY TO INSPECT — FIELD CHECKLIST

Post-tensioned concrete rough-in inspection checklist

Post-tensioned concrete rough-in is the last time the work is fully visible. Once the cover inspection passes and the walls, ceilings and slabs close, every defect left behind becomes a demolition bill. This checklist walks the rough-in in the order the work goes in, with the photo each item needs before it gets buried. Work is commonly verified against ACI, the applicable building code. Confirm the edition your authority having jurisdiction has adopted.

Who runs it: The GC's superintendent with the PT subcontractor's foreman, walking the deck ahead of the pre-pour inspection.
When: After tendons are placed and tied and before concrete is placed, since the drape and hardware are unrecoverable once the pour starts.

Shop drawings and materials

- [ ] Placing crew working from the current approved PT shop drawings
  Revision on the sheets at the deck matches the latest approved PT shop drawing issue, with superseded sheets pulled and any RFI changes marked on the set.
  No photo required

- [ ] Strand and anchor tags matched to the approved PT submittal
  Bundle or coil tags and anchor castings show the manufacturer, strand size and system named in the approved PT submittal, with mill certificates for the strand on file.
  1 photo required

Tendon placement

- [ ] Profile and drape set to the support bar heights on the drawings
  High and low points at the locations shown, support bar heights measured along the tendon against the placing drawings, not set to a flat chair height.
  2 photos required

- [ ] Sheathing continuous and undamaged
  Extruded sheathing intact along each tendon, nicks and tears taped and repaired, couplers and transitions sealed before the pour.
  2 photos required

- [ ] Tendon count and spacing in each band and bay match the drawings
  Tendons counted in every banded and distributed run against the placing drawings, spacing measured, and each tendon's tag mark matching its location on the plan.
  1 photo required

- [ ] Tendons run smooth between supports with no kinks or twists
  Each tendon follows a smooth curve from support to support, strands not twisted around each other, and sweeps around openings kept to the gradual radius the drawings show.
  1 photo required

- [ ] Mild reinforcing and tendons stacked in the order detailed
  Top and bottom bars at column bands and crossings sit above or below the tendons as the drawings show, not forcing a tendon off its profile height.
  1 photo required

- [ ] Sleeves, conduits and embeds kept off the tendon profile
  No sleeve, box or conduit bundle pushing a tendon up, down or sideways; conduits not stacked under tendons at low points where they eat into the drape.
  1 photo required

Anchorage

- [ ] Anchorage hardware and pocket formers placed and square
  Dead-end and live-end anchors seated against the edge form, pocket formers square and tight, back-up bars or bursting reinforcement per the detail.
  2 photos required

- [ ] Tendon straight behind each anchor for the length detailed
  Tendon leaves every anchor square to its bearing face and runs straight for the length the PT shop drawing detail shows before any vertical or horizontal curve starts.
  1 photo required

- [ ] Anchor height at the slab or beam edge matches the drawings
  Anchor centerline measured from the soffit or edge form at live and dead ends against the height on the placing drawings, not wherever the edge form hole landed.
  1 photo required

Cover

- [ ] Concrete cover to the tendon verified
  Top and bottom cover to the sheathing checked at high and low points against the drawings, tendons tied down so they don't float during the pour.
  1 photo required

- [ ] Pocket former depth leaves room to cover the cut tail
  Anchor recessed behind the edge form by the pocket depth on the detail, so the cut tail and wedges will sit fully inside the patch with the cover the detail calls for.
  1 photo required

Release for pour

- [ ] Special inspector's tendon placement observation recorded
  Where the statement of special inspections covers PT placement, the inspector's observation of profile, anchorage and cover is logged for this pour before release.
  No photo required

- [ ] Extra cylinders for the stressing strength ordered for the pour
  Testing agency has the added cylinder sets the PT supplier needs to confirm stressing strength, with the break schedule set around the planned stressing day.
  No photo required