READY TO INSPECT — FIELD CHECKLIST

Site utilities final inspection checklist

Site utilities final inspection is where the punch list is either short or expensive. This checklist walks the finished work the way an owner or AHJ will see it: devices on, systems running, everything labeled. Each item gets the photo that closes it instead of reopening it. Work is commonly verified against IPC / UPC plumbing codes, the project specifications. Confirm the edition your authority having jurisdiction has adopted.

Who runs it: The GC's superintendent with the utility foreman and the testing party, witnessing the tests and walking the finished lines. When: After backfill and before the surface goes back, with the required tests witnessed rather than taken on a paper result.

Water main

- [ ] **Pressure and leakage test observed**
  Hydrostatic pressure and leakage test on the water main witnessed, pressure held for the specified duration, gauge and any make-up water recorded.
  No photo required

- [ ] **Main disinfected and bacteriological results passed before service**
  Chlorination, flushing and the lab's bacteriological sample results on file for each segment before the new main is connected to the live system.
  No photo required

- [ ] **Every valve on the new main operated through its full travel**
  Valves cycled open and closed before tie-in, or by the utility's operators once connected, with the engineer present, and left in the position the plan shows.
  No photo required

Gravity sewer

- [ ] **Mandrel or deflection and camera on gravity lines observed**
  Mandrel or deflection test pulled and the CCTV run witnessed on storm and sanitary, video reviewed for bellies, offsets, infiltration and debris.
  3 photos required

- [ ] **Manholes and structures sound and to grade**
  Structures set plumb, benching and channels shaped, joints sealed, rims and covers adjusted to finish grade.
  2 photos required

- [ ] **Low-pressure air or exfiltration test on sanitary lines witnessed**
  Contractor's air or water test on each sanitary reach watched by the utility or engineer, with the signed result filed against the reach number.
  No photo required

- [ ] **Manhole vacuum or exfiltration test record filed for every structure**
  Test record for each sanitary manhole matched to its structure number, any failed structure repaired and retested before the record closes.
  No photo required

Backfill and record

- [ ] **Trench backfill compacted**
  Backfill placed in lifts and compacted, compaction test results confirmed on the trench line before the surface is restored.
  2 photos required

- [ ] **As-builts recorded before cover**
  Line locations, inverts, structures and any deviations from the plan recorded on the as-built before the surface closes it off.
  1 photo required

- [ ] **Tracer wire continuity proved from its access points**
  Locator signal put on the wire at each test box or valve box and followed along the nonmetallic runs, any break found and spliced before the surface goes back.
  No photo required

- [ ] Test reports and CCTV video indexed for the turnover package
  Pressure, disinfection, air, vacuum, mandrel and compaction records and the inspection video files labeled by reach and structure number and filed with the as-built.
  No photo required

Structures and dry utilities

- [ ] Covers and grates cast for the right utility and traffic rating
  Lids marked sanitary, storm or water as the utility requires, and frames and grates in drive lanes carry the load rating shown on the plans.
  1 photo required
- [ ] Temporary plugs and test bulkheads removed from every structure
  Each manhole and inlet viewed from the rim with a light, test plugs and shift-end caps out of the pipes and flow running through the channel.
  1 photo required
- [ ] Dry-utility conduits proved with a mandrel and pull strings left in
  Each conduit mandreled end to end by the installer, pull line left in and ends capped, results recorded per conduit for the serving utility.
  No photo required