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Inspect retaining wall footing reinforcement (horizontal)

Inspect retaining wall footing reinforcement (horizontal) with an interactive checklist. Commentable workflow; verify bars, cover, laps, dowels; export as PDF/Excel with QR authentication.

Project:	
Date:	
Filled by:	

Documentation & Identification	
1	Confirm latest approved drawings, bar schedule, and inspection test plan are on hand; verify revision/date. Evidence: photo of title blocks; acceptance: documents match site scope per approved project specifications and authority requirements.
2	Match bar marks and quantities to the schedule and bundle tags at location. Method: cross-check mark numbers; evidence: photos of tags; acceptance: marks and counts align with drawings.
3	Record mill certificate/heat numbers where traceability is required. Method: note on checklist and photograph labels; acceptance: traceability recorded per project requirements.
4	Verify reinforcement is free of flaky rust, oil, mud, or paint at bond zones. Method: visual; evidence: close-up photos; acceptance: surface condition suitable per approved project specifications.

Bar Sizes & Spacing (Horizontal)	
5	Measure bar diameters with a rebar gauge or vernier calipers. Evidence: photo showing reading in mm; acceptance: nominal size matches schedule (tolerance per project specifications).
6	Confirm bar grade/type via markings or paint code legend. Method: compare to schedule; evidence: photo of markings; acceptance: grade/type as specified.
7	Verify spacing along the footing using a steel tape and chalk lines. Evidence: photos with tape; acceptance: spacing equals drawing requirement within specified tolerance.
8	Count bars in each layer (bottom/top mats if applicable) and confirm extents match plan. Evidence: marked photo; acceptance: quantities and extents per drawings.

Cover & Supports	
9	Check spacer/cover block thickness equals specified cover (e.g., stamped 50 mm). Evidence: photo of stamp and placement; acceptance: correct thickness and approved material.
10	Verify chair/spacer spacing and type (plastic/FRP/concrete) suit bar size and load. Method: measure spacing in mm; acceptance: layout per manufacturer and project specifications.
11	Measure edge and soffit cover from formwork to nearest bar using a ruler/cover meter. Evidence: photos; acceptance: cover meets drawings within specified tolerance.
12	Ensure bars are stable on chairs; attempt gentle movement by hand. Evidence: video/photo; acceptance: no significant displacement under light handling.
13	Orient tie wire tails away from cover faces; trim flush to avoid encroaching cover. Evidence: close-up photos; acceptance: no tie ends within specified cover zone.

Laps & Anchorage	
14	Measure lap splice lengths with a tape and mark ends with paint. Evidence: photo with measurement in mm; acceptance: lap length ≥ specified for bar size/grade.
15	Stagger lap splices per drawings; verify minimum clear spacing between lapped bars. Evidence: photos with tape; acceptance: staggering and spacing per specifications.
16	Tie laps at minimum third points to prevent opening during handling. Evidence: photo of ties; acceptance: ties installed and secure per project requirements.
17	Confirm development/anchorage where hooks or step/heel details exist. Method: measure hook/embed lengths; acceptance: dimensions per approved drawings.

Dowels to Stem Interface	
18	Verify dowel size, grade, and spacing at the footing centerline. Evidence: gauge/tape photos; acceptance: matches schedule within specified tolerance.
19	Measure dowel embedment into footing and projection height for stem connection. Evidence: tape photos; acceptance: embed/projection per drawings and specifications.
20	Check dowel alignment using a plumb line/level and string line along wall axis. Evidence: photos; acceptance: verticality and location within specified tolerance.
21	Install protective caps or sleeves where required until formwork/stem steel is placed. Evidence: photos; acceptance: all exposed dowels protected per safety/spec requirements.

Placement, Tying & Restraint	
22	Confirm bends and hooks match bending schedule; measure inside bend diameter. Evidence: photos; acceptance: geometry per approved project specifications.
23	Verify couplers/continuity bars at planned joints, if specified; note IDs/torque marks. Evidence: photo of coupler and tag; acceptance: installation per manufacturer/specs.
24	Install temporary restraints to prevent bar shift during formwork adjustments and access. Evidence: photos; acceptance: reinforcement remains in documented position.
25	Clear debris, loose wire, and offcuts from the mat to maintain spacing and cover. Evidence: photo before/after; acceptance: reinforcement unobstructed and clean.
26	Final sign-off: capture wide-angle photos, measurement close-ups, and obtain inspector approval. Evidence: digital signatures and QR-linked report; acceptance: ready for next activity.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Inspect retaining wall footing reinforcement (horizontal) is a critical pre-pour task that validates the rebar layout against the approved drawings and schedules. This checklist focuses on horizontal reinforcement within the footing, including bar sizes, spacing, lap splices, bar cover, supports, and the dowels that connect the footing to the wall stem. It excludes concrete-related controls and tests, keeping the scope clearly on steel placement and documentation. By verifying the reinforcement schedule, confirming chairs and spacers, checking dowel alignment, and measuring laps with a tape or rebar gauge, you prevent under-reinforcement, bar corrosion from inadequate cover, and stem misalignment due to misplaced dowels. The outcome is a compliant installation ready for form closure and further inspections, backed by photo evidence, material identification, and sign-offs per approved project specifications and authority requirements. Use this interactive checklist in the field: tick each item, add comments for nonconformances, and export your record as PDF or Excel with a QR code for authentication.	1. Preparation: bring drawings/schedules, rebar gauge or calipers, steel tape, marker, plumb line/level, cover meter or ruler, camera, PPE (gloves, eye protection, boots), and QR-enabled device. 2. Open the interactive checklist on your device, select project, location, and footing segment, and confirm the latest revisions are loaded. 3. Work item-by-item: measure, photograph evidence, and tick completed checks. Add comments with dimensions, bar marks, and tag numbers for any nonconformance. 4. Use the comment threads to assign actions to fabricators or foremen, attach markup photos, and set due dates for corrections. 5. When resolved, retake measurements and photos, close comments, and re-tick items to show compliance per approved project specifications and authority requirements. 6. Export the completed record to PDF/Excel, including embedded photos and measurements. The export includes a QR code for authentication. 7. Sign-off: capture digital signatures from the inspector and contractor representative, distribute to stakeholders, and archive within the project record.